U.S. DEPARTMENT OF COMMERCE
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PB-289 260

Water Resources Data for Pennsylvania Water Year 1973. Part 2. Water Quality Records

(U.S.) Geological Survey, Harrisburg, PA Water Resources Div

1974

BIBLIOGRAPHIC DATA SHEET	1. Report No. USGS/WRD/HD-78/307	2.	3. Recipient's Accession No. PB289260

4. Title and Subtitle

Water Resources Data for Pennsylvania
Water Year 1973
Part 2. Water Quality Records

5. Report Date
1974

6.

7. Author(s)

8. Performing Organization Rept. No.
USGS-WDR-PA-73-2

9. Performing Organization Name and Address
U.S. Geological Survey, Water Resources Division
P.O. Box 1107, 4th Floor, Federal Bldg.
228 Walnut Street
Harrisburg, PA 17108

10. Project/Task/Work Unit No.

11. Contract/Grant No.

12. Sponsoring Organization Name and Address
U.S. Geological Survey, Water Resources Division
P.O. Box 1107, 4th Floor, Federal Bldg.
228 Walnut Street
Harrisburg, PA 17108

13. Type of Report & Period Covered
Annual - Oct. 1, 1972
to Sept. 30, 1973

14.

15. Supplementary Notes Prepared in cooperation with the Pennsylvania Department of Environmental Resources, and with other State, municipal, and Federal agencies.

16. Abstracts Water resources data for the 1973 water year for Pennsylvania consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 107 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Pennsulvania.

17. Key Words and Document Analysis. 17a. Descriptors
*Pennsylvania, *Hydrologic data, *Water quality, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement No restriction on distribution.
This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report)
UNCLASSIFIED

20. Security Class (This Page)
UNCLASSIFIED

21. No. of Pages
440

22. Price
PC A19 / MF A01

FORM NTIS-35 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

PB 289260

1973

Water Resources Data for Pennsylvania
Water Year 1973
Part 2. Water Quality Records

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MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT PA-73-2

Prepared in cooperation with the Pennsylvania Department of Environmental Resources, the Philadelphia Water Department, and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

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1973

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1973

Water Resources Data for Pennsylvania Water Year 1973

Part 2. Water Quality Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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Prepared in cooperation with the Pennsylvania Department of Environmental Resources and with other State, municipal, and Federal agencies

Prepared in cooperation with

Pennsylvania Department of Environmental Resources
Pennsylvania Department of Transportation
Susquehanna River Basin Commission
Delaware River Basin Commission
Chester County Water Resources Authority
City of Easton
City of Philadelphia
Delaware Geological Survey
Corps of Engineers, U.S. Army
U.S. Environmental Protection Agency

Water resources records, 1973, for Pennsylvania are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Pennsylvania
   Part 1: Surface Water Records

2. Water Resources Data for Pennsylvania
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Federal Building
P.O. Box 1107
Harrisburg, Pennsylvania 17108

1975

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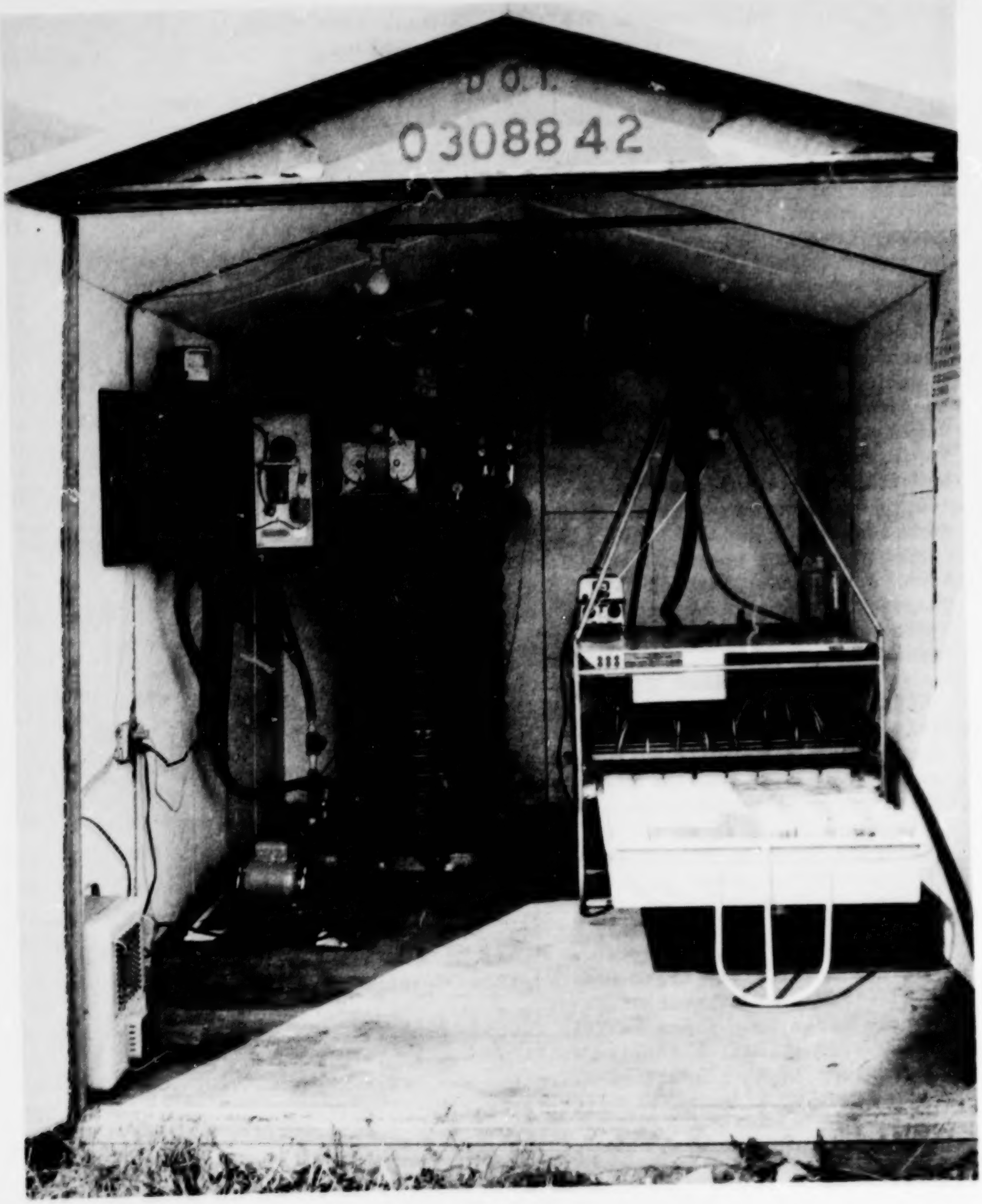

Figure 1.--A short-term gaging station equipped to continuously record gage height, water temperature, turbidity, and to automatically collect sediment samples at pre-selected turbidity levels. (Photograph by Commonwealth Photographic Services.)

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

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WATER RESOURCES DATA FOR PENNSYLVANIA, 1973

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1973 water year for Pennsylvania include records of data for the chemical and physical characteristics of surface water. Data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60-minute intervals. A few pertinent stations in bordering States are also included. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of Norman H. Beamer, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Pennsylvania.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

State Department of Environmental Resources, M. K. Goddard, secretary, through the following: Office of Engineering and Construction, C. H. McConnell, deputy secretary. State Soil and Water Conservation Commission, W. N. Peechatka, executive secretary. Office of Environmental Protection and Regularion, W. E. Gilbertson, deputy secretary.

State Department of Transportation, J. G. Kassab, secretary, through the Bureau of Materials, Testing, and Research, L. D. Sandvig, director.

Susquehanna River Basin Commission, R. J. Bielo, executive director.

Delaware River Basin Commission, J. F. Wright, executive director.

Chester County Water Resources Authority, D. C. Yaeck, executive director.

City of Easton, F. L. Ashton, Jr., mayor.

City of Philadelphia, Water Department, C. F. Guarino, water commissioner.

Delaware Geological Survey, R. R. Jordan, state geologist.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, Baltimore and Philadelphia Districts, and the U.S. Environmental Protection Agency.

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data as used in the report are defined below. See also table for converting English units to International System of units (SI) on page 17.

Acre-foot (AC-FT, ac-ft) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by microorganisms, such as bacteria.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inches from 1 square mile.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres reis determined by the immediate or delayed incubation membrane filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (µg/l, UG/L) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations are converted to parts per million by using the factors in table 2, page 6.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

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*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells or any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multi-celled and are counted according to the number of contained cells per sample volume, usually millilitres (ml) or litres(l).

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square metres (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually millilitres (ml) or litres (l). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	266 - 280	1.17	540 - 554	1.34
8.05 - 24	1.01	282 - 297	1.18	556 - 570	1.35
24.2 - 40	1.02	299 - 313	1.19	572 - 585	1.36
40.5 - 56	1.03	315 - 329	1.20	587 - 602	1.37
56.5 - 72	1.04	331 - 345	1.21	604 - 617	1.38
72.5 - 88	1.05	347 - 361	1.22	619 - 634	1.39
88.5 - 104	1.06	363 - 378	1.23	636 - 650	1.40
105 - 120	1.07	380 - 393	1.24	652 - 666	1.41
121 - 136	1.08	395 - 409	1.25	668 - 682	1.42
137 - 152	1.09	411 - 424	1.26	684 - 698	1.43
153 - 169	1.10	427 - 440	1.27	700 - 715	1.44
170 - 185	1.11	443 - 457	1.28	717 - 730	1.45
186 - 200	1.12	460 - 473	1.29	732 - 747	1.46
201 - 217	1.13	476 - 489	1.30	749 - 762	1.47
218 - 232	1.14	492 - 506	1.31	765 - 780	1.48
234 - 248	1.15	508 - 522	1.32	782 - 796	1.49
250 - 264	1.16	524 - 538	1.33	798 - 810	1.50

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per millilitre (cells/ml) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per 100 ml of sample.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Sediment trend curve or double mass curve as used in this report is a plot of the cumulative sediment discharge against cumulative water discharge for the period of record. A straight line relation is indicative of a constancy in proportionality between the two variables. A change in the slope of the relation is indicative of a change of proportionality of the variables. Because water discharge is considered the independent variable, an increase in slope from the previous slope indicates an increase in sediment discharge while a decrease in slope indicates a decrease in sediment discharge.

Suspended sediment concentration-duration table is a cumulative frequency table that shows the percentage of time that specified suspended sediment concentrations are equaled or exceeded.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from man-made changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p. 24). The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are those of uranium in micrograms per litre, radium as radium-226 in picocuries per litre, gross beta radiation as strontium/yttrium-90 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre.

A picocurie (PC/L, pCi/l) is one millionth of the amount of radioactivity represented by a micorcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegration per minute.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations of tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record, miscellaneous, and continuous-record stations; therefore, the station number indicates downstream order position in a list made up of all types of stations. Water-quality stations located at or near gaging stations have the same number as the gaging station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 01570500 which appears just to left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "570500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basin) and Part 3 (Ohio River basin). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

Downstream order station numbers are not assigned to sites where only random water-quality samples are taken. These sites are classified as water-quality miscellaneous sites and as a means of location and identification a 15-digit number consisting of the latitude and longitude coordinates to the nearest second for each site plus a 2-digit sequential number as assigned. For example, the station number for a water-quality miscellaneous site with lat 42°28'47", long 071°41'04", would be 422847071410401.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in Pennsylvania have been released in the report, "Water Resources Data for Pennsylvania, 1973, Part 1. Surface Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperature was reported in degrees Fahrenheit (°F).

In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per millions and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre. (See "Definition of Terms," page 4 and table for converting English units to SI units, page 17.)

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

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*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge depending on the source of material and the turbulence and the mixing of the stream. Some must be sampled at several verticals across the channel to determine accurately the solute load.

At chemical quality stations equipped with continuous digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured, and are based upon 15-minute punches beginning at 0015 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

WATER-SUPPLY PAPERS

The annual series of water-supply papers that give information on quality of surface waters in Pennsylvania are shown in the following table. Data for the North Atlantic Slope basins are given in part 1, and for the Ohio River basin, in part 3.

Table 4.--Water-supply paper numbers and parts, water years 1944-71

Year	Parts 1-4	Year	Parts 1-2	Parts 3-4	Part 1	Part 2	Part 3
1944	A1022	1959	1641	1642	----	----	----
1945	A1030	1960	1741	1742	----	----	----
1946	A1050	1961	1881	1882	----	----	----
1947	A1102	1962	1941	1942	----	----	----
1948	B1132	1963	1947	1948	----	----	----
1949	B1162	1964	1954	1955	----	----	----
1950	1186	1965	1961	1962	----	----	----
1951	1197	1966	1991	1992	----	----	----
1952	1250	1967	2011	2012	----	----	----
1953	1290	1968	----	----	2091	C2092	C2093
1954	1350	1969	----	----	C2141	C2142	C2143
1955	1400	1970	----	----	C2151	C2152	C2153
1956	1450	1971	----	----	C2161	C2162	C2163
1957	1520						
1958	1571						

A Parts 1-14

B Parts 1-6.

C In press.

SELECTED REFERENCES

American Society for Testing and Materials, 1971, Annual book of standards, part 23, water; atmospheric analysis: Am. Soc. for Testing and Materials, Philadelphia, Pa., 936 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A3, 40 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

______1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, second edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Land, E. W., and others, 1947, Report of Subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-939.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p. (open file).

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed., p. 257.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____1941, Methods of analyzing sediment samples: Rept. 4.

_____1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10

_____1957, The development and calibration of visual accumulation tube: Rept. 11.

_____1957, Some fundamentals of particle size analysis: Rept. 12.

_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____1961, The single stage sampler for suspended sediment: Rept. 13.

_____1963, Determinations of fluvial sediment discharge: Rept. 14.

_____1963, A summary of the work of the Inter-agency sedimentation project: Rept. S.

Table 5.--Factors for converting English units to International System (SI) units

The following factors may be used to convert English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4,047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometre (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	$3.785x10^{-3}$	cubic metres (m^3)
million gallons (10^6 gal)	3,785	cubic metres (m^3)
	$3.785x10^{-3}$	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2,447	cubic metres (m^3)
	$2.447x10^{-3}$	cubic hectometres (hm^3)
acre-feet (acre-ft)	1,233	cubic metres (m^3)
	$1.233x10^{-3}$	cubic hectometres (hm^3)
	$1.233.10^{-6}$	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	$6.309x10^{-5}$	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9027	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

SECTION A

CHEMICAL RECORDS

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DELAWARE BAY

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.

LOCATION.--Lat 39°18'19", long 75°22'37", Cumberland County, water-quality recorder on lightship in bay opposite Bombay Hook Island, Del., and 3 miles (4.8 km) south southwest of mouth of Cohansey River, N.J.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1973.

EXTREMES.

Period of record:
Specific conductance (1968-73): Maximum, 52,800 micromhos Feb. 10, 1970; minimum, 1,500 micromhos Mar. 4, 1971.
Water temperatures (1970-73): Maximum, 30.0°C Aug. 1, 1970; minimum, 0.5°C Feb. 9, 15, 1970.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	17990	9780	14380
2	---	---	---	---	---	---	13960	7560	---	15710	10340	13550
3	29040	25560	---	---	---	---	15080	7800	12130	16060	9490	13290
4	29230	26200	27820	---	---	---	17720	10340	13930	18170	10420	14050
5	30430	26200	---	---	---	---	17720	11920	15130	14380	8920	12340
6	---	---	---	---	---	---	17720	10220	14180	13350	7830	10510
7	---	---	---	---	---	---	17540	7910	12720	13660	7030	10110
8	---	---	---	---	---	---	17180	9960	13710	16920	9150	12330
9	---	---	---	---	---	---	15920	7910	11780	17720	11150	14880
10	---	---	---	---	---	---	14560	5830	10610	17900	9670	14270
11	---	---	---	---	---	---	12450	4460	9500	17900	11800	14730
12	---	---	---	---	---	---	13960	6120	10110	17630	11250	14570
13	---	---	---	---	---	---	14140	4240	9480	18980	12740	15970
14	---	---	---	---	---	---	14080	7370	10060	20140	12980	17300
15	---	---	---	---	---	---	18800	10340	13650	19610	13600	17410
16	---	---	---	---	---	---	16520	8160	11800	20800	13350	17620
17	---	---	---	---	---	---	11550	570	7930	19610	14140	16830
18	---	---	---	---	---	---	17630	7880	11540	20920	14080	17430
19	---	---	---	---	---	---	16680	6220	12700	21760	14870	17860
20	---	---	---	---	---	---	18980	10340	15440	19250	12000	15770
21	---	---	---	---	---	---	21400	12680	17360	19520	12400	15850
22	---	---	---	---	---	---	21880	15150	18290	22480	14740	18260
23	---	---	---	---	---	---	19070	12680	16310	18800	12980	15710
24	---	---	---	---	---	---	17900	12350	15430	17000	10000	14170
25	---	---	---	---	---	---	16600	9810	13530	16600	9700	13000
26	---	---	---	---	---	---	15360	8770	12450	17360	9150	13920
27	---	---	---	---	---	---	14870	7120	11080	19250	9460	14790
28	---	---	---	---	---	---	18080	7860	11650	18980	8960	15680
29	---	---	---	---	---	---	17360	7370	12920	21160	10700	15430
30	---	---	---	---	---	---	18800	9190	13680	19920	6940	13770
31	---	---	---	---	---	---	18440	8100	14240	19250	9530	14220
MONTH	---	---	---	---	---	---	21880	570	12870	22480	6940	14840

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19700	11720	15840	24760	14260	20510	23080	19160	21110	19700	13720	16840
2	19520	12680	16520	23900	19070	22050	22600	17180	19990	18620	12740	15950
3	16440	9670	13380	24320	19610	22470	21520	14940	18550	18890	11960	14810
4	12980	6700	10010	24760	20250	22570	21520	14560	17950	19160	11150	15150
5	12350	6390	9420	23760	19430	21870	18980	8270	13810	20250	11550	14850
6	13350	6790	10190	24040	20140	22090	13660	6910	10360	19070	11840	15770
7	14320	7080	11010	24460	20250	22160	13450	7400	10390	19520	11400	15660
8	14260	6300	10460	24320	23620	---	14440	5260	11140	19810	12920	16510
9	11960	4830	8490	---	---	---	15500	5890	10470	18890	7960	13730
10	13500	7400	10790	---	---	---	14320	4380	9310	16440	8580	12250
11	19430	12800	15350	---	---	---	8050	2770	5980	15780	8520	12870
12	22120	13150	16970	---	---	---	13200	3970	8010	13660	9390	11900
13	23200	14200	18060	20250	12800	---	13720	6960	9890	16060	7800	12950
14	21520	13840	18930	21640	14560	18710	16680	7350	12250	15360	9810	12770
15	21040	14620	18960	21880	15850	19390	17450	9700	13020	17360	7860	12420
16	20920	13900	18100	21520	15990	19560	14740	7420	12260	17810	10340	13750
17	20800	5830	17140	21640	14800	18340	14870	8490	11630	16760	7480	12700
18	21880	1460	12960	17540	8050	13140	14440	8050	11520	16440	9920	12110
19	21400	1570	18000	16360	7720	11920	14260	8160	11750	15640	6100	11660
20	21280	15010	19140	20470	9560	14570	15920	9090	12100	16440	3800	11180
21	21040	14500	18890	21640	14940	17790	15990	9670	12210	18080	6500	11480
22	21640	15430	18890	22360	16200	19660	14440	8050	10970	15010	7770	---
23	22120	14260	18250	23200	16840	20320	13600	6840	10670	---	---	---
24	20580	10980	16830	24760	15150	20850	15920	8300	12210	---	---	---
25	20580	11640	16390	25560	15080	20300	16200	8460	12500	---	---	---
26	19920	12860	17230	23760	15780	20180	15080	9780	12730	---	---	---
27	22720	13300	19980	23900	17180	20760	18440	10940	14390	---	---	---
28	24460	12620	19840	25880	15920	19940	19070	11250	14720	---	---	---
29	---	---	---	22960	14080	19200	18710	9960	14880	---	---	---
30	---	---	---	22600	14680	19410	18800	10940	16120	---	---	---
31	---	---	---	22720	17540	20440	---	---	---	---	---	---
MONTH	24460	1460	15570	25880	7720	19530	23080	2770	12760	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	17540	7120	11750	22960	16360	19810	24760	19700	22790
2	---	---	---	15150	5540	9520	21760	15430	18760	24040	18260	22270
3	---	---	---	12740	5350	8720	20470	14320	17890	24320	19520	22300
4	---	---	---	10500	5090	8000	19700	12300	16980	24040	17180	21380
5	---	---	---	11100	5020	8350	19610	12620	16690	24920	17720	21970
6	---	---	---	11760	4680	8670	21160	11880	17230	23760	18080	21610
7	12740	8360	---	14380	5390	9830	22000	12560	17330	24040	17990	21390
8	14260	7940	11320	14800	5170	10880	20920	14080	18000	24460	18800	21970
9	13720	6940	10560	15640	6790	11210	21160	13040	17890	27730	21400	23710
10	14740	7350	11220	17000	7800	13060	21160	15080	18540	29610	23200	25750
11	15150	6960	11990	18710	8670	13910	21280	14680	18560	29610	20690	25340
12	16130	8160	12210	18710	12200	15420	22480	16060	19080	27220	21760	25220
13	17810	9150	13020	20470	11020	16490	22960	17090	19910	30220	23200	26220
14	19160	11020	14350	20690	12740	17040	23400	16200	20650	27900	23620	25650
15	20690	11840	15550	23080	15150	18280	23340	17900	21280	27560	22240	25520
16	19700	12500	16090	22000	16060	19200	23080	18800	21480	26710	22240	24700
17	20920	13960	16410	22000	17090	19700	24180	18980	21790	26880	21880	24670
18	21760	15570	17710	22000	16920	19400	23760	19160	21690	26200	21520	24120
19	19520	12800	16900	21040	15500	18700	24180	17810	21420	25880	20030	23710
20	19610	12450	16940	19920	15080	17830	24180	19070	21670	25880	20360	23600
21	19430	12560	16590	19250	14940	17770	24760	20250	22320	26040	20360	23740
22	19430	12620	16310	20920	13900	18420	24760	18710	22190	26040	22360	24210
23	19810	11640	16720	20920	14680	18510	24460	17900	22160	25240	21160	23320
24	20470	12800	17510	20920	14500	18410	24920	18890	22060	26540	20920	23530
25	20580	14680	18030	21400	14680	18220	25560	18890	22270	27220	23080	25090
26	21160	15010	18160	20800	14680	18040	25720	20250	22700	26880	21040	24200
27	21400	14680	17950	21760	15010	18240	25080	18800	22230	25240	20920	23120
28	22720	14560	18710	21760	15850	18390	25400	19520	22160	25240	20470	22750
29	20250	10940	17480	22960	15990	18780	25720	19810	22590	25720	21160	23470
30	18980	10580	14860	23080	15850	19520	25400	20250	23060	25560	21040	22970
31	---	---	---	23900	16360	19820	24920	20250	22950	---	---	---
MONTH	22720	6940	---	23900	4680	15490	25720	11880	20430	30220	17180	23680

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	9.0	8.0	---	---	---	---
3	---	---	---	---	---	---	8.5	8.0	8.0	---	---	---
4	---	---	---	---	---	---	8.5	8.0	8.0	---	---	---
5	---	---	---	---	---	---	9.0	8.0	8.0	---	---	---
6	---	---	---	---	---	---	9.5	8.0	8.5	---	---	---
7	---	---	---	---	---	---	8.0	7.0	7.5	---	---	---
8	---	---	---	---	---	---	8.0	6.5	7.5	---	---	---
9	---	---	---	---	---	---	8.0	7.0	7.5	---	---	---
10	---	---	---	---	---	---	8.0	7.0	7.5	---	---	---
11	---	---	---	---	---	---	8.0	6.5	7.0	---	---	---
12	---	---	---	---	---	---	8.0	6.5	7.0	---	---	---
13	---	---	---	---	---	---	8.0	6.5	7.5	---	---	---
14	---	---	---	---	---	---	8.0	6.5	7.5	---	---	---
15	---	---	---	---	---	---	8.5	7.0	8.0	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	3.0	1.5	2.5	8.5	8.0	8.5	14.0	13.0	13.5
2	---	---	---	3.0	2.0	3.0	9.0	8.5	8.5	14.5	13.5	14.0
3	---	---	---	3.0	3.0	3.0	9.5	8.5	9.0	15.0	14.5	14.5
4	---	---	---	3.0	3.0	3.0	9.5	9.0	9.0	15.0	14.0	14.5
5	---	---	---	3.5	3.0	3.0	9.5	9.0	9.5	14.5	12.0	14.0
6	---	---	---	3.5	3.0	3.5	10.0	9.0	9.5	15.0	13.5	14.0
7	---	---	---	4.0	3.5	3.5	10.0	9.5	10.0	15.0	14.0	14.5
8	---	---	---	4.0	4.0	---	10.0	9.5	10.0	14.5	14.5	14.5
9	---	---	---	---	---	---	10.0	9.5	10.0	15.0	14.5	14.5
10	---	---	---	---	---	---	10.5	9.5	10.0	16.5	15.0	15.0
11	---	---	---	---	---	---	10.0	9.5	10.0	16.0	15.5	15.5
12	---	---	---	---	---	---	10.0	9.0	9.5	16.5	15.5	16.0
13	---	---	---	8.0	6.0	---	9.5	9.0	9.0	17.0	16.0	16.5
14	2.0	2.0	---	8.0	6.0	7.0	10.0	8.5	9.0	18.0	16.5	16.5
15	3.0	2.0	2.5	8.0	6.5	7.0	10.0	9.0	9.5	17.0	16.5	16.5
16	3.0	1.5	2.5	8.0	7.0	7.5	10.5	9.5	10.0	18.0	16.0	16.5
17	2.0	0.5	1.0	8.0	8.0	8.0	11.0	10.0	10.5	17.0	16.0	16.5
18	0.5	0.0	0.0	8.0	8.0	8.0	11.5	10.5	11.0	16.5	15.5	16.0
19	0.5	0.0	0.5	8.0	7.0	8.0	13.0	11.0	11.5	17.0	15.5	16.0
20	1.0	0.5	0.5	8.0	6.5	7.5	13.5	11.5	12.0	16.5	15.5	16.0
21	1.0	0.5	1.0	7.0	6.5	6.5	13.0	10.0	12.5	16.5	15.5	16.0
22	1.0	0.5	1.0	6.5	6.0	6.5	16.5	12.0	13.5	18.0	15.5	16.5
23	1.0	1.0	1.0	6.5	6.0	6.0	16.5	13.0	14.0	17.0	16.5	16.5
24	1.5	1.0	1.0	8.0	5.5	6.0	15.0	13.5	14.5	16.5	16.0	16.5
25	2.0	1.0	1.0	7.0	6.0	6.5	15.0	14.5	14.5	16.0	15.5	15.5
26	3.0	1.5	2.0	8.0	6.5	7.0	14.5	14.0	14.0	15.5	15.0	15.5
27	2.0	1.5	2.0	8.0	7.0	7.5	14.0	13.5	13.5	15.5	15.0	15.0
28	3.0	1.5	2.0	8.0	8.0	8.0	13.5	13.0	13.5	15.5	15.0	15.0
29	---	---	---	9.0	8.0	8.0	13.5	13.0	13.0	18.0	15.0	16.0
30	---	---	---	8.0	8.0	8.0	13.5	13.0	13.0	17.0	16.0	16.5
31	---	---	---	8.5	8.0	8.0	---	---	---	17.0	17.0	---
MONTH	---	---	---	9.0	1.5	6.0	16.5	8.0	11.0	18.0	12.0	15.5

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N.J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	26.0	25.5	26.0	26.5	26.0	26.5	28.0	26.5	27.0
2	---	---	---	26.5	25.5	26.0	27.0	26.5	26.5	28.0	27.0	28.0
3	---	---	---	26.5	24.5	26.0	27.0	26.5	26.5	28.5	28.0	28.0
4	---	---	---	27.0	25.5	26.0	27.0	26.5	26.5	29.0	28.0	28.0
5	---	---	---	27.0	24.5	26.0	28.0	26.5	27.0	28.5	28.0	28.5
6	---	---	---	27.0	24.5	26.0	28.5	26.5	27.0	28.5	28.0	28.0
7	21.0	21.0	---	28.0	26.0	26.5	28.0	26.5	27.0	29.0	27.0	28.0
8	22.0	21.0	21.5	28.0	26.0	27.0	28.0	26.5	27.0	28.0	26.5	27.5
9	23.0	21.5	22.0	28.0	26.0	27.0	28.0	26.5	27.0	28.0	26.5	---
10	24.0	22.0	23.0	28.5	26.0	27.5	28.0	26.5	27.0	---	---	---
11	24.5	23.0	23.5	28.0	26.0	27.0	28.0	26.5	27.0	---	---	---
12	25.0	23.5	24.0	26.0	25.0	26.0	28.0	27.0	27.5	---	---	---
13	25.0	24.0	24.5	26.0	24.5	25.0	28.0	27.0	27.5	---	---	---
14	25.0	24.0	24.5	26.5	25.0	25.5	27.0	26.5	27.0	---	---	---
15	26.0	23.5	24.0	26.0	25.0	25.5	28.0	26.5	27.0	---	---	---
16	24.0	23.5	24.0	26.0	25.0	25.5	27.0	26.5	26.5	---	---	---
17	24.0	23.0	23.5	25.5	25.0	25.0	27.0	26.0	26.5	---	---	---
18	23.0	23.0	23.0	26.0	25.0	25.0	26.5	26.0	26.5	---	---	---
19	23.0	23.0	23.0	26.0	25.0	25.5	26.5	26.0	26.0	24.0	23.0	---
20	24.0	23.0	23.0	26.0	25.5	25.5	26.0	26.0	26.0	23.5	23.0	23.0
21	24.0	23.0	23.5	26.0	25.5	26.0	26.0	25.0	25.5	23.5	22.0	22.5
22	23.5	23.0	23.5	26.0	25.5	25.5	25.0	24.0	24.5	23.5	22.0	22.5
23	24.0	23.0	23.5	26.5	25.5	25.5	25.0	24.0	24.0	23.0	21.5	22.0
24	24.5	23.5	23.5	27.0	25.5	25.5	25.0	24.0	24.0	23.0	22.0	23.0
25	24.5	23.5	24.0	26.5	25.5	25.5	25.0	24.0	24.0	23.0	21.5	22.5
26	25.5	23.0	24.0	26.0	25.5	25.5	25.0	24.0	24.0	23.5	22.0	23.0
27	27.0	22.0	24.5	26.5	25.5	26.0	25.5	24.5	24.5	23.5	23.0	23.0
28	25.5	23.5	24.5	26.5	25.5	26.0	26.0	25.0	25.0	23.5	22.0	23.0
29	25.0	24.5	25.0	27.0	25.5	26.0	26.5	25.5	26.0	24.0	23.0	23.5
30	26.0	25.0	25.0	27.0	26.0	26.5	27.0	26.0	26.5	22.0	21.0	21.5
31	---	---	---	27.0	26.0	26.5	28.0	26.5	27.0	---	---	---
MONTH	27.0	21.0	---	28.5	24.5	26.0	28.5	24.0	26.0	---	---	---

01428850 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE, PA.

LOCATION.--Lat 41°38'06", long 75°20'57", Wayne County, at bridge on State Highway 170, 0.5 mile (0.8 km) upstream from Prompton Lake and 1.2 mile (1.9 km) south of Aldenville.

DRAINAGE AREA.--49.5 mi^2 (128 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
MAY										
10...	1630	.11	.02	.36	.38	.03	.02	67	7.1	13.0
18...	1230	.18	.06	.20	.26	.03	.02	68	7.9	15.5
24...	1500	.16	.01	.25	.26	.04	.02	74	9.1	21.0
31...	1500	.27	.07	.95	1.0	.14	.08	66	7.2	17.0
JUNE										
07...	1745	.25	.02	.26	.28	.03	.02	71	7.6	18.5
14...	1515	.25	.05	.26	.31	.05	.03	71	7.0	18.0
JULY										
27...	1600	.29	.03	.26	.29	.03	.02	79	7.0	20.0
AUG.										
23...	1130	.50	.05	.21	.26	.02	.02	86	7.5	20.0
SEP.										
27...	1600	.16	.13	.33	.46	.10	.04	85	7.3	18.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)
NOV.									
09...	1215	.36	--	--	--	--	.11	--	.40
JAN.									
10...	1145	.41	--	--	--	--	.06	--	.32
FEB.									
07...	1130	.86	--	--	--	--	.00	--	.21
APR.									
18...	1130	.20	--	--	--	--	.02	--	.11
JUNE									
06...	1530	--	.15	.00	.15	--	--	.10	.18
27...	1400	--	.21	.00	.21	--	--	.14	.15
JULY									
18...	1540	--	.20	.00	.20	--	--	.07	.12
AUG.									
01...	1220	--	.35	.00	.35	--	--	.07	.05
15...	1600	--	.36	.00	.36	--	--	.22	.06
30...	1330	--	.20	.00	.20	--	--	.04	.26
SEP.									
13...	1000	--	.22	.01	.23	--	--	.00	.04
27...	1000	--	.00	.00	--	.00	--	.36	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.								
09...	.51	--	.19	.05	--	54	7.3	7.0
JAN.								
10...	.38	--	.02	.01	--	75	8.0	.0
FEB.								
07...	.21	--	.02	.04	--	66	7.4	2.0
APR.								
18...	.13	--	.02	.01	--	71	7.1	12.0
JUNE								
06...	.28	.43	.03	--	.01	72	6.7	18.5
27...	.29	.50	.04	--	.02	68	--	20.0
JULY								
18...	.19	.39	.03	--	.02	80	8.6	23.0
AUG.								
01...	.12	.47	.02	--	.00	82	7.1	21.5
15...	.28	.64	.07	--	.05	81	6.5	20.0
30...	.30	.50	.04	--	.05	89	6.3	24.5
SEP.								
13...	.04	.27	.02	--	.02	58	6.3	14.0
27...	.36	--	.03	--	.03	--	--	--

413542075195000 (Revised) PROMPTON LAKE AT PROMPTON DAM, PA.

LOCATION.--Lat 41°35'42", long 75°19'50", Wayne County, adjacent to borough of Prompton at point 400 ft (122 m) upstream of dam on West Branch Lackawaxen River.

DRAINAGE AREA.--59.5 mi^2 (155 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station), May 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
MAY							
10...	1530	.11	.05	.31	.36	.04	.02
18...	1100	.09	.00	.26	.26	.03	.01
24...	1400	.11	.06	.30	.36	.01	.01
31...	1400	.02	.15	.02	.17	.01	.00
JUNE							
07...	1700	.11	.04	.29	.33	.04	.01
14...	1400	.25	.06	.24	.30	.02	.01
JULY							
27...	1500	.05	.08	.33	.41	.02	.00
AUG.							
23...	1100	.02	.12	.31	.43	.01	.00
SEP.							
27...	1500	.00	.07	.40	.47	.02	.00

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY						
10...	65	7.2	11.0	--	4.4	--
18...	74	8.3	17.0	--	5.2	--
24...	69	8.5	24.0	--	--	--
31...	67	7.4	18.5	--	--	--
JUNE						
07...	65	7.3	17.5	--	--	--
14...	67	6.6	17.5	--	3.1	--
JULY						
27...	70	6.9	24.0	9.9	4.8	--
AUG.						
23...	86	7.4	24.5	8.5	1.5	5.5
SEP.						
27...	70	7.5	19.5	11.5	--	--

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
AUG.									
23...	1100	.0	50	63	9.3	1.2	1.7	1.0	27

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.									
23...	0	22	9.9	2.3	.2	45	39	28	6

413542075195000 PROMPTON LAKE AT PROMPTON DAM, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG.								
23...	5	1.7	1	3	12	3	2	8

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
NOV.									
09...	1105	.29	--	--	--	--	.14	--	.34
JAN.									
10...	1100	.54	--	--	--	--	.03	--	.25
FEB.									
07...	1030	.77	--	--	--	--	.18	--	.28
APR.									
18...	1040	.27	--	--	--	--	.08	--	.07
JUNE									
06...	1415	--	.02	.00	.02	--	--	.10	.25
27...	1345	--	.12	.00	.12	--	--	.17	.29
JULY									
19...	0900	--	.09	.00	.09	--	--	.12	.19
AUG.									
01...	0945	--	.01	.00	.01	--	--	.10	.00
15...	1330	--	.03	.00	.03	--	--	.19	.28
30...	1100	--	.00	.00	.00	--	--	.74	.36
SEP.									
13...	1100	--	.01	.00	.01	--	--	2.0	.60
27...	1050	--	.00	.00	.00	.00	--	.12	.41

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.									
09...	.48	--	.10	.04	--	71	7.4	6.5	--
JAN.									
10...	.28	--	.01	.01	--	--	--	.0	--
FEB.									
07...	.46	--	.07	.04	--	64	7.2	.0	5.5
APR.									
18...	.15	--	.02	.01	--	61	7.1	10.0	--
JUNE									
06...	.35	.37	.02	--	.00	65	6.9	22.0	--
27...	.46	.58	.03	--	.01	70	--	21.0	3.0
JULY									
19...	.31	.40	.03	--	.01	65	7.9	24.0	--
AUG.									
01...	.10	.11	.02	--	>.00	67	8.5	23.0	--
15...	.47	.50	.01	--	.01	74	6.6	23.0	--
30...	1.1	1.1	.03	--	.00	88	9.2	26.5	--
SEP.									
13...	2.6	2.6	.03	--	.02	70	6.5	20.5	--
27...	.53	.53	.01	--	.02	89	6.6	16.0	--

01429000 WEST BRANCH LACKAWAXEN RIVER AT PROMPTON, PA.

LOCATION.--Lat 41°35'14", long 75°19'38", Wayne County, at bridge on U.S. Highway 6, 1,500 ft (457 m) downstream from gage at Prompton, 2,000 ft (610 m) downstream from Prompton Lake, and 500 ft (152 m) upstream from Van Auken Creek.

DRAINAGE AREA.--59.7 mi^2 (155 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
MAY											
10...	1700	135	.07	.04	.14	.18	.06	.02	61	7.2	12.0
18...	1300	135	.07	.01	.31	.32	.03	.01	67	7.6	16.5
24...	1530	100	.20	.02	.40	.42	.02	.01	69	8.1	21.0
31...	1530	36	.05	.07	.29	.36	.03	.01	74	7.2	15.0
JUNE											
07...	1800	145	.11	.07	.28	.35	.04	.01	66	7.6	18.5
14...	1530	70	.14	.15	.26	.41	.03	.02	68	7.1	17.0
JULY											
27...	1630	27	.07	.07	.29	.36	.02	.01	67	7.2	24.0
AUG.											
23...	1200	24	.07	.13	.43	.56	.02	.02	85	7.7	23.0
SEP.											
27...	1630	30	.02	.08	.39	.47	.03	.00	82	7.2	20.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)
NOV.									
09...	1230	1600	.25	--	--	--	.12	--	.46
JAN.									
10...	1200	82	.45	--	--	--	.02	--	.21
FEB.									
07...	1200	160	.72	--	--	--	.20	--	.45
APR.									
18...	1200	80	.23	--	--	--	.00	--	.15
JUNE									
06...	1540	136	--	.00	.00	.07	--	.12	.23
27...	1415	160	--	.17	.00	.18	--	.26	.35
JULY									
18...	1600	46	--	.10	.00	.10	--	.24	.09
AUG.									
01...	1230	42	--	.04	.01	.05	--	.12	.39
15...	1630	35	--	.06	.00	.06	--	.24	.27
30...	1400	23	--	.00	.00	.00	--	.64	.17
SEP.									
13...	1300	22	--	.11	.00	.11	--	.15	.35
27...	1300	41	--	.00	.00	.00	--	.19	.26

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.								
09...	.58	--	.09	.03	--	74	6.3	8.0
JAN.								
10...	.23	--	.02	.01	--	65	7.8	1.0
FEB.								
07...	.65	--	.11	.08	--	65	7.2	1.5
APR.								
18...	.15	--	.02	.01	--	60	7.4	10.0
JUNE								
06...	.35	.42	.02	--	.00	66	6.9	18.5
27...	.61	.79	.03	--	.01	69	--	19.0
JULY								
18...	.33	.43	.03	--	.01	65	7.4	25.0
AUG.								
01...	.51	.56	.03	--	.00	68	6.9	23.0
15...	.51	.57	.02	--	.02	78	6.7	23.0
30...	.81	.81	.03	--	.01	81	8.2	25.0
SEP.								
13...	.50	.61	.03	--	.01	--	6.3	22.0
27...	.45	.45	.02	--	.02	86	7.1	18.0

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, at gaging station at Church Street Bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAY											
31...	1310	866	--	9.2	1.0	--	--	16	0	13	--
JUNE											
20...	1100	248	2.8	11	1.3	2.8	1.0	28	0	23	11
JULY											
24...	1655	146	1.9	11	1.3	3.2	1.0	27	0	22	11
AUG.											
21...	1645	236	--	11	1.2	--	--	27	0	22	--
SEP.											
17...	1800	123	--	11	1.4	--	--	27	0	22	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
MAY										
31...	--	--	.12	.00	.08	.21	.03	.00	54	27
JUNE										
20...	3.6	.2	.19	.00	.15	.10	--	.01	51	33
JULY										
24...	4.0	.2	.09	.00	.05	.23	.06	.01	62	33
AUG.										
21...	--	--	.23	.00	.04	.20	.04	.03	56	32
SEP.										
17...	--	--	.21	.00	.06	.20	.05	.04	60	33

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY										
31...	14	70	7.2	17.0	10.6	110	3.2	550	3.9	200
JUNE										
20...	10	78	7.1	20.0	7.6	83	1.1	280	--	270
JULY										
24...	11	93	8.8	28.0	9.5	122	1.0	1400	--	821
AUG.										
21...	10	85	6.8	21.0	8.8	99	--	590	--	240
SEP.										
17...	11	89	6.9	18.0	9.0	96	.5	2100	--	32

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.

LOCATION.--Lat 41°22'04", long 75°19'10", Pike County, at roadside park 0.9 mile (1.4 km) southeast of Ledgedale and 2.6 miles (4.2 km) downstream from the confluence of East and West Branches.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--Chemical analyses: June to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JUNE										
20...	1320	--	1.1	7.8	1.0	2.2	.6	15	0	12
JULY										
25...	1030	E140	1.7	6.9	.9	2.0	.6	13	0	11
AUG.										
21...	1400	E95	--	6.5	.9	--	--	13	0	11
SEP.										
18...	1530	237	--	8.0	1.1	--	--	19	0	16

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)
JUNE										
20...	9.5	3.8	.2	.08	.00	.14	.25	--	.00	44
JULY										
25...	10	3.6	.2	.04	.00	.04	.30	.02	.00	46
AUG.										
21...	--	--	--	.01	.00	.03	.42	.02	.00	41
SEP.										
18...	--	--	--	.06	.00	.04	.42	.03	.01	70

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
JUNE										
20...	24	11	64	6.7	23.0	6.8	78	1.3	.8	E6
JULY										
25...	21	10	59	7.5	25.0	8.5	103	2.6	4.0	E3
AUG.										
21...	20	9	58	6.8	24.0	8.0	95	--	5.0	E1
SEP.										
18...	25	9	68	6.9	17.0	9.6	100	2.5	6.9	28

01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.

LOCATION.--Lat 41°29'12", long 74°59'31", Pike County, at highway bridge in Lackawaxen, 0.3 mile (0.5 km) upstream from mouth.

DRAINAGE AREA.--597 mi^2 (1,550 km^2).

PERIOD OF RECORD.--Chemical analyses: May to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAY 31...	1130	1410	--	8.0	1.0	--	--	14	0	11
JUNE 20...	0900	--	3.0	8.9	1.3	2.6	.8	20	0	16
JULY 24...	1315	343	.9	9.0	1.3	2.7	.9	24	0	20
AUG. 22...	1145	294	--	8.2	1.2	--	--	21	0	17
SEP. 19...	1200	607	--	9.0	1.3	--	--	21	0	17

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)
MAY 31...	--	--	--	--	.00	.08	.13	.01	.00	73
JUNE 20...	9.0	3.5	.3	.20	.00	.13	.13	--	.00	52
JULY 24...	10	4.0	.2	.00	.00	.05	.12	.01	.00	60
AUG. 22...	--	--	--	.11	.00	.03	.10	.02	.01	44
SEP. 19...	--	--	--	.25	.00	.05	.17	.04	.01	62

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
MAY 31...	24	13	63	7.1	17.0	10.8	113	1.4	--	260
JUNE 20...	28	11	70	7.4	19.0	8.8	95	.5	1.6	E8
JULY 24...	28	8	78	8.0	25.0	8.9	107	1.1	1.9	E5
AUG. 22...	25	8	72	7.8	21.0	9.0	101	--	1.5	8
SEP. 19...	28	11	83	6.7	17.0	9.4	98	.5	3.1	96

01438200 CUMMINS CREEK NEAR MILFORD, PA.

LOCATION.--Lat 41°20'38", long 74°45'38", Pike County, on concrete culvert on State Highway 209, 3.0 miles (4.8 km) north of the traffic light in Milford.

DRAINAGE AREA.--4.45 mi^2 (11.5 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
NOV.								
08...	1215	5	.09	.04	.74	--	.19	.08
MAR.								
06...	1615	4	.11	.02	.05	.07	.02	.00
APR.								
05...	1150	--	.11	.11	.08	.19	.14	.13
SEP.								
26...	1330	--	--	--	.13	.14	.02	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
08...	71	5.5	9.5	11.2	5500	5000	46000	15
MAR.								
06...	44	7.3	4.5	14.1	27	1	1	2.0
APR.								
05...	42	7.2	6.5	--	62	2	20	2.5
SEP.								
26...	52	6.7	13.0	12.4	52	E2	42	10

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
SEP.						
26...	1330	.00	.00	.00	.01	.02

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR.												
06...	1615	50	6	1	0	<10	2	0	1	.5	3	10

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP.												
26...	1330	30	10	<1	0	0	1	0	0	<.5	5	10

DELAWARE RIVER BASIN

01438300 VANDERMARKS CREEK AT MILFORD, PA.

LOCATION.--Lat 41°19'37", long 74°47'51", Pike County, at Broad Street Bridge in Milford.

DRAINAGE AREA.--5.11 mi^2 (13.2 km^2).

PERIOD OF RECORD.--Chemical analyses, November 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 08...	1145	14	.41	.03	.85	.88	.18	.08
MAR. 07...	0830	8	.20	.04	.11	.15	.01	.01
APR. 05...	1200	--	.27	.03	.23	.26	.02	.02
SEP. 26...	1345	--	--	--	.09	.12	.02	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	69	5.9	10.0	11.0	3200	1100	4100	12
MAR. 07...	50	7.1	4.5	14.3	53	27	10	2.0
APR. 05...	44	6.8	7.0	--	380	10	35	3.5
SEP. 26...	52	6.7	15.0	12.2	650	20	68	10

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
SEP. 26...	1345	.00	.00	.00	.12	.03

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR. 07...	0830	80	10	0	0	0	0	3	<.5	6	50

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 26...	1345	40	10	<1	0	0	0	0	0	<.5	1	10

01438395 SAWKILL CREEK AT MILFORD, PA.

LOCATION.--Lat 41°19'19", long 74°48'17", Pike County, at private bridge in Milford, 0.8 mile (1.3 km) upstream from mouth.

DRAINAGE AREA.--24.0 mi^2 (62.2 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.
Sediment records: March to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 355.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV.								
08...	1030	116	11	.16	--	--	--	--
DEC.								
05...	1430	73	--	.34	--	--	--	--
JAN.								
09...	1440	95	--	.09	--	--	--	--
FEB.								
06...	1500	112	--	.01	--	--	--	--
MAR.								
07...	0945	45	8	.11	--	--	--	--
APR.								
05...	0059	540	--	.34	--	--	--	--
MAY								
30...	1745	86	--	--	.08	.00	.08	--
JUNE								
26...	1515	39	--	--	.15	.00	.15	--
AUG.								
01...	1515	28	--	--	.20	.00	.20	--
29...	1430	39	--	--	.00	.00	.00	.00
SEP.								
26...	1415	--	--	--	.00	.00	.00	--

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV.									
08...	.04	--	--	.62	.66	--	.15	.08	--
DEC.									
05...	.03	--	--	.05	.08	--	.01	.01	--
JAN.									
09...	.01	--	--	.17	.18	--	.01	.00	--
FEB.									
06...	.04	--	--	.12	.16	--	.05	.00	--
MAR.									
07...	.15	--	--	.15	.30	--	.02	.01	--
APR.									
05...	.02	--	--	.18	.20	--	.04	.02	--
MAY									
30...	--	.06	.08	.43	.49	.57	.01	--	.01
JUNE									
26...	--	.09	.12	.18	.27	.42	.02	--	.01
AUG.									
01...	--	.05	.06	.05	.10	.30	.03	--	.03
29...	--	.00	.00	.07	.07	.07	.06	--	.02
SEP.									
26...	--	.06	.08	.05	.11	.11	.01	--	.02

01438395 SAWKILL CREEK AT MILFORD, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
08...	71	6.9	9.5	11.8	2800	320	1500	12
DEC.								
05...	58	6.8	4.0	14.0	65	12	23	2.5
JAN.								
09...	61	7.7	.0	14.8	65	E5	E7	3.5
FEB.								
06...	55	7.7	3.0	13.8	E18	E3	E5	3.5
MAR.								
07...	57	7.6	5.0	14.0	38	E5	E5	3.0
APR.								
05...	46	6.5	6.5	--	670	25	25	5.0
MAY								
30...	45	6.2	18.0	10.4	E1800	E10	20	4.0
JUNE								
26...	68	6.8	20.0	--	130	80	400	2.0
AUG.								
01...	65	6.9	20.0	10.6	300	59	560	1.0
24...	61	--	23.5	10.2	130	25	160	.0
SEP.								
26...	60	6.6	15.5	12.4	230	9	40	10

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR.												
07...	0945	140	61	1	0	<10	2	0	1	.5	3	10

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP.											
26...	1415	50	10	0	0	0	0	1	<.5	3	10

01438500 DELAWARE RIVER AT MONTAGUE, N.J. (MILFORD, PA.)

LOCATION.--Lat 41°18'30", long 74°47'50", Sussex County, at U.S. Highway 206 bridge, 0.4 mile (0.6 km) downstream from gaging station at Montague.

DRAINAGE AREA.--3,480 mi^2 (9,013 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1956 to September 1973.
Water temperatures: October 1956 to September 1957.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.												
18...	1345	1995	1.4	200	0	22	0	18	10	5.2	.1	.30
NOV.												
13...	1500	8654	2.9	210	0	10	0	8	13	3.0	.0	.50
DEC.												
18...	1200	7080	3.2	160	0	12	0	10	12	4.0	.0	.40
20...	1330	6960	--	--	--	--	--	--	--	--	--	.27
JAN.												
18...	0800	4930	3.0	90	50	14	0	11	11	4.5	.2	.50
FEB.												
14...	1330	4730	2.8	80	0	13	0	11	12	4.5	.0	.30
MAR.												
19...	0845	15360	2.8	200	30	9	0	7	10	3.1	.2	.50
APR.												
17...	1015	8213	2.4	--	--	14	0	11	11	3.5	.0	.30
MAY												
22...	1230	25400	--	--	--	--	--	--	--	--	--	.29
AUG.												
16...	0830	8974	2.4	30	0	15	0	12	8.8	3.7	.5	.16

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.												
18...	--	--	--	--	--	--	.01	44	--	29	11	5.6
NOV.												
13...	--	--	--	--	--	--	.01	43	--	22	14	2.0
DEC.												
18...	--	--	--	--	--	--	.01	44	--	22	12	6.1
20...	--	.06	.18	.24	--	.01	.01	--	--	--	--	--
JAN.												
18...	--	--	--	--	--	--	.01	46	--	25	14	3.0
FEB.												
14...	--	.04	.18	.22	--	.01	.01	46	--	25	14	2.1
MAR.												
19...	--	--	--	--	--	--	.01	40	--	20	13	6.0
APR.												
17...	--	--	--	--	--	--	--	--	--	25	13	4.0
MAY												
22...	.00	.06	--	.17	--	.03	.00	--	--	--	--	--
AUG.												
16...	--	.10	.25	.35	.52	.05	.03	--	35	22	10	5.0

01438500 DELAWARE RIVER AT MONTAGUE, N.J. (MILFORD, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)
OCT. 18...	1345	1995	78	6.8	8.8	5	--
26...	1145	2188	85	7.5	9.0	--	9.2
NOV. 13...	1500	8654	60	6.9	7.5	7	--
DEC. 18...	1200	7080	62	6.5	.0	3	--
20...	1330	6960	56	7.8	1.2	--	14.0
JAN. 18...	0800	4930	69	6.9	1.2	0	--
FEB. 14...	1330	4730	68	7.0	1.0	5	14.4
MAR. 19...	0845	15360	56	6.4	3.5	3	--
APR. 17...	1015	8213	68	6.7	9.7	--	14.4
MAY 22...	1230	25400	55	7.4	13.0	--	10.8
JUNE 20...	1100	3165	68	6.7	20.0	--	4.5
JULY 11...	0930	5600	65	7.6	23.6	--	8.0
AUG. 16...	0830	8974	60	6.6	20.4	--	8.4
SEP. 25...	0830	3144	73	7.6	15.2	--	9.2

DATE	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
OCT. 18...	--	--	--	--	--	--
26...	.5	62	3	22	--	--
NOV. 13...	--	--	--	--	--	--
DEC. 18...	--	--	--	--	--	--
20...	--	--	--	--	3.5	--
JAN. 18...	--	--	--	--	--	--
FEB. 14...	1.1	0	2	0	3.0	--
MAR. 19...	--	--	--	--	--	--
APR. 17...	1.4	67	7	210	--	--
MAY 22...	1.4	192	28	20	.4	2.0
JUNE 20...	.4	100	21	120	--	--
JULY 11...	.2	350	132	600	--	--
AUG. 16...	--	2000	--	3200	2.0	2.0
SEP. 25...	.7	3600	--	180	--	--

01438500 DELAWARE RIVER AT MONTAGUE, N.J. (MILFORD, PA.).--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
AUG.												
16...	47	200	18	0	<1	7	<2	0	<1	4	0	<1

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
AUG.												
16...	2	2	0	2	1	0	40	<1	2	<.7	14	<2

01438720 RAYMONDSKILL CREEK NEAR SILVER SPRING, PA.

LOCATION.--Lat 41°17'40", long 74°50'48", Pike County, on country road bridge 3.0 miles (4.8 km) southwest of Milford and 1.0 mile (1.6 km) upstream from mouth.

DRAINAGE AREA.--23.1 mi^2 (59.8 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.
Sediment records: March to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 355.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV. 08...	0915	--	8	.11	--	--	--	--
DEC. 05...	1400	66	--	.29	--	--	--	--
JAN. 09...	1420	85	--	.20	--	--	--	--
FEB. 06...	1430	91	--	.01	--	--	--	--
MAR. 07...	1020	42	60	.09	--	--	--	--
APR. 05...	0040	370	--	.23	--	--	--	--
MAY 30...	1715	64	--	--	.08	.00	.08	.08
JUNE 26...	1500	30	--	--	.08	.00	.08	--
AUG. 01...	1535	13	--	--	.04	.00	.04	--
29...	1400	17	--	--	.00	.00	.00	.00
SEP. 26...	1220	24	--	--	.00	.00	.00	.00

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV. 08...	.04	--	--	.27	.31	--	.04	.01	--
DEC. 05...	.00	--	--	.08	.08	--	.03	.02	--
JAN. 09...	.00	--	--	.11	.11	--	.01	.01	--
FEB. 06...	.12	--	--	.12	.24	--	.02	.00	--
MAR. 07...	.17	--	--	.18	.35	--	.03	.01	--
APR. 05...	.10	--	--	.17	.27	--	.02	.02	--
MAY 30...	--	.13	.17	.00	.13	.21	.02	--	.01
JUNE 26...	--	.12	.15	.18	.30	.38	.03	--	.02
AUG. 01...	--	.09	.12	.13	.22	.26	.04	--	.02
29...	--	.01	.01	.27	.28	.28	.02	--	.00
SEP. 26...	--	.03	.04	.24	.27	.27	.03	--	.02

01438720 RAYMONDSKILL CREEK NEAR SILVER SPRING, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
08...	50	5.8	8.5	11.4	700	170	300	14
DEC.								
05...	45	6.2	3.0	13.7	210	E1	14	4.5
JAN.								
09...	49	7.8	.0	14.4	E60	E3	E4	3.5
FEB.								
06...	40	7.6	2.0	14.0	110	E2	E11	4.0
MAR.								
07...	40	7.5	3.5	14.7	E17	E3	E5	5.5
APR.								
05...	38	6.6	6.0	--	130	19	29	4.0
MAY								
30...	39	6.0	17.5	10.4	E2400	25	E12	--
JUNE								
26...	50	6.6	21.0	9.2	>130	47	>400	6.5
AUG.								
01...	41	6.7	22.5	9.6	140	100	2600	7.0
29...	45	6.6	25.0	9.4	1600	38	300	3.0
SEP.								
26...	42	6.6	15.0	12.2	330	20	E56	14

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP.												
26...	1220	240	30	<1	0	0	1	0	2	<.5	5	10

01438740 CONASHAUGH CREEK NEAR DINGMANS FERRY, PA.

LOCATION.--Lat 41°16'16", long 74°50'54", Pike County, on Old Conashaugh Road, 3.1 miles (5.0 km) north of Dingmans Ferry and 0.3 mile (0.5 km) above mouth.

DRAINAGE AREA.--2.10 mi^2 (5.44 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 08...	0900	9	.18	.00	.07	.07	.03	.02
MAR. 07...	1115	4	.09	.03	.02	.05	.02	.01
APR. 05...	1340	--	.11	.00	.09	.09	.01	.01
SEP. 26...	1145	--	--	--	.02	.06	.01	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	80	7.2	10.0	11.0	450	87	260	6.5
MAR. 07...	57	6.6	4.5	14.4	32	4	1	2.0
APR. 05...	51	7.0	7.0	--	38	1	1	4.0
SEP. 26...	65	6.2	13.0	12.8	120	5	10	7.0

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
SEP. 26...	1145	.00	.00	.00	.04	.06	.01	4.0

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 26...	1145	20	0	0	0	1	0	1	<.5	3	20

DELAWARE RIVER BASIN

01438760 ADAMS CREEK NEAR DINGMANS FERRY, PA.

LOCATION.--Lat 41°14'21", long 74°52'00", Pike County, at concrete bridge on State Highway 209, 1.1 mile (1.8 km) north of Dingmans Ferry.

DRAINAGE AREA.--8.05 mi^2 (20.8 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 07...	1610	--	.07	.11	.04	.15	.01	.01
MAR. 07...	1200	3	.14	.06	.06	--	.02	.00
APR. 05...	1330	--	.11	.11	.07	.18	.02	.00
SEP. 25...	1530	--	--	--	--	.14	.12	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 07...	58	5.8	6.0	--	--	--	7	8.5
MAR. 07...	46	5.9	4.0	14.4	8	1	1	2.5
APR. 05...	42	6.9	7.0	--	430	1	6	3.5
SEP. 25...	52	7.1	14.5	12.4	190	1	48	--

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
SEP. 25...	1530	.00	.00	.00	.02	.11

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR. 07...	1200	70	20	0	0	<10	0	0	2	<.5	5	60

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 25...	1530	70	10	0	0	1	0	0	<.5	3	10

01438900 DINGMANS CREEK AT DINGMANS FERRY, PA.

LOCATION.--41°13'30", long 74°52'49", Pike County, at highway bridge on road to Dingman Falls 1.0 mile (1.6 km) northwest of Dingmans Ferry, 1.1 mile (1.8 km) upstream from mouth.

DRAINAGE AREA.--15.2 mi^2 (39.4 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.
Sediment records: March to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 355.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV.								
07...	1600	12	9	.07	--	--	--	--
DEC.								
05...	1330	40	--	.45	--	--	--	--
JAN.								
09...	1400	--	--	.14	--	--	--	--
FEB.								
06...	1400	84	--	.01	--	--	--	--
MAR.								
06...	1510	29	5	.14	--	--	--	--
APR.								
05...	0015	460	--	.11	--	--	--	--
MAY								
30...	1530	36	--	--	.05	.00	.05	.05
JUNE								
26...	1420	14	--	--	.06	.00	.06	--
AUG.								
01...	1600	7.9	--	--	.13	.00	.14	--
29...	1345	8.0	--	--	.14	.00	.00	.00
SEP.								
25...	1430	6.9	--	--	.00	.00	.00	.00

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV.									
07...	.07	--	--	.18	.25	--	.01	.00	--
DEC.									
05...	.02	--	--	.08	.10	--	.02	.01	--
JAN.									
09...	.02	--	--	.11	.13	--	.01	.01	--
FEB.									
06...	.04	--	--	.21	.25	--	.03	.00	--
MAR.									
06...	.08	--	--	.17	.25	--	.04	.01	--
APR.									
05...	.02	--	--	.23	.25	--	.04	.02	--
MAY									
30...	--	.09	.12	.77	.86	.91	.02	--	.01
JUNE									
26...	--	.10	.13	.14	.24	.30	.02	--	.01
AUG.									
01...	--	.09	.12	.00	.09	.23	.01	--	.01
29...	--	.01	.01	.12	.13	.13	.02	--	.02
SEP.									
25...	--	.03	.04	.20	.23	.23	.21	--	.19

01438900 DINGMANS CREEK AT DINGMANS FERRY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
07...	60	6.9	7.0	11.7	27	6	12	8.5
DEC.								
05...	48	7.5	3.5	13.6	530	E8	E6	3.5
JAN.								
04...	58	6.8	.0	15.0	480	E6	E7	4.0
FEB.								
06...	41	7.8	2.5	14.0	130	E8	E6	6.5
MAR.								
06...	42	6.5	4.5	14.0	62	21	23	4.0
APR.								
05...	40	6.6	7.0	--	370	E17	27	4.0
MAY								
30...	40	6.0	16.5	10.6	E3600	E15	E9	--
JUNE								
26...	54	6.6	21.0	9.0	>130	110	>400	4.5
AUG.								
01...	55	6.8	20.0	9.6	130	E12	1700	--
29...	48	6.6	24.0	9.4	260	E6	1000	3.0
SEP.								
25...	46	7.2	14.5	12.2	40	E3	700	10

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP.												
25...	1430	190	20	<1	0	0	0	10	3	<.5	5	20

01439100 HORNBECKS CREEK NEAR DINGMANS FERRY, PA.

LOCATION.--Lat 41°11'23", long 74°53'04", Pike County, at concrete bridge on State Highway 209, 2.4 miles (3.9 km) south of Dingmans Ferry and 0.3 mile (0.5 km) above mouth.

DRAINAGE AREA.--9.48 mi^2 (24.6 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV.								
07...	1350	10	.07	.01	.21	.22	.02	.00
MAR.								
06...	1440	4	.09	.03	.09	.12	.01	.00
APR.								
05...	1315	--	.14	.00	.10	.10	.03	.02
SEP.								
25...	1515	--	--	--	--	.11	.01	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
07...	56	5.9	7.0	12.0	47	11	27	9.0
MAR.								
06...	51	6.0	5.0	14.4	39	3	1	3.5
APR.								
05...	45	7.1	8.0	--	65	2	16	2.5
SEP.								
25...	56	7.2	14.5	12.4	320	11	140	--

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
SEP.						
25...	1515	.00	.00	.00	.08	.01

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP.												
25...	1515	40	30	3	0	0	0	0	1	<.5	5	20

01439400 TOMS CREEK AT EGYPT MILLS, PA.

LOCATION.--Lat 41°07'33", long 74°57'20", Pike County, on Old Egypt Mills Road, 3.0 miles (4.8 km) north of Bushkill.

DRAINAGE AREA.--9.35 mi^2 (24.2 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 07...	1330	11	.07	.01	.06	.07	.01	.01
MAR. 06...	1415	6	.05	.08	.12	.20	.01	.01
APR. 05...	1300	--	.07	.08	.12	.20	.01	.01
SEP. 25...	1400	--	--	--	.02	.11	.04	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 07...	65	6.5	7.5	11.9	27	0	1	6.0
MAR. 06...	47	6.9	5.0	14.2	33	10	1	3.0
APR. 05...	42	7.0	7.0	--	57	7	3	3.0
SEP. 25...	52	7.0	14.5	12.4	220	20	66	8.0

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
SEP. 25...	1400	.00	.00	.00	.09	.11	.02

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 25...	1400	20	40	0	1	0	1	10	3	<.5	4	20

01439500 BUSH KILL AT SHOEMAKERS, PA.

LOCATION.--Lat 41°05'17", long 75°02'17", Monroe County, on right bank 30 ft (9 m) downstream from highway bridge, 0.1 mile (0.2 km) downstream from Saw Creek, 0.7 mile (1.1 km) northwest of Shoemakers, and 2 miles (3.2 km) southwest of Bushkill.

DRAINAGE AREA.--117 mi^2 (303 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.
Sediment records: March to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 355.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV.								
07...	1140	98	16	.07	--	--	--	--
DEC.								
06...	1000	396	5	.29	--	--	--	--
JAN.								
09...	1300	350	--	.09	--	--	--	--
FEB.								
06...	1220	460	--	.00	--	--	--	--
MAR.								
06...	1200	250	10	.02	--	--	--	--
APR.								
04...	2215	1140	--	.25	--	--	--	--
MAY								
30...	1350	455	--	--	.00	.00	.00	.00
JUNE								
26...	1300	182	--	--	.04	.00	.05	--
AUG.								
01...	1645	117	--	--	.04	.00	.05	--
29...	1200	93	--	--	.00	.00	.00	.00
SEP.								
25...	1245	120	--	--	.00	.00	.00	--

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV.									
07...	.03	--	--	.18	.21	--	.02	.01	--
DEC.									
06...	.03	--	--	.18	.21	--	.01	.00	--
JAN.									
09...	.00	--	--	.09	.09	--	.01	.00	--
FEB.									
06...	.06	--	--	.06	.12	--	.03	.01	--
MAR.									
06...	.07	--	--	.15	.22	--	.03	.01	--
APR.									
04...	.11	--	--	.18	.29	--	.10	.09	--
MAY									
30...	--	.09	.12	.08	.17	.17	.02	--	.00
JUNE									
26...	--	.23	.30	.10	.33	.38	.03	--	.01
AUG.									
01...	--	.05	.06	.18	.23	.28	.02	--	.02
29...	--	.00	.00	.24	.24	.24	.02	--	.02
SEP.									
25...	--	.08	.10	.35	.43	.43	.01	--	.01

01439500 BUSH KILL AT SHOEMAKERS, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
07...	55	7.3	6.5	12.2	45	6	12	9.5
DEC.								
06...	32	6.8	4.0	13.6	92	8	12	4.5
JAN.								
09...	46	7.4	.0	14.6	52	1	2	5.5
FEB.								
06...	36	7.2	3.0	14.4	53	E2	E7	5.0
MAR.								
06...	36	6.6	6.0	14.0	36	E4	E1	3.5
APR.								
04...	40	6.5	7.0	--	360	16	18	6.5
MAY								
30...	38	6.2	19.0	10.8	1400	E5	E400	--
JUNE								
26...	44	6.2	20.5	9.8	>130	90	>400	4.7
AUG.								
01...	38	6.3	22.0	10.4	E760	31	560	3.0
29...	40	6.7	24.0	9.2	900	36	250	2.0
SEP.								
25...	38	6.5	16.0	12.4	420	E3	150	12

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP.												
25...	1245	100	10	<1	0	0	0	0	3	<.5	4	10

01439680 LITTLE BUSH KILL AT BUSHKILL, PA.

LOCATION.--Lat 41°05'52", long 75°00'15", Pike County, at highway bridge on Sugar Hill Road 0.3 mile (0.5 km) northwest of Bushkill Post Office, 0.5 mile (0.6 km) upstream from mouth.

DRAINAGE AREA.--32.6 mi^2 (84.4 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.
Sediment records: March to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 356.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
NOV. 07...	1215	45	5	.11	--	--	--	--
DEC. 06...	0945	112	--	.38	--	--	--	--
JAN. 09...	1300	994	--	.09	--	--	--	--
FEB. 06...	1300	168	--	.01	--	--	--	--
MAR. 06...	1330	66	4	.07	--	--	--	--
APR. 04...	2240	440	--	.27	--	--	--	--
MAY 30...	1420	117	--	--	.04	.00	.05	--
JUNE 26...	1320	59	--	--	.07	.00	.08	--
AUG. 01...	1630	19	--	--	.14	.00	.15	--
29...	1220	23	--	--	.00	.00	.00	.00
SEP. 25...	1300	30	--	--	.00	.00	.00	--

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
NOV. 07...	.04	--	--	.34	.38	--	.02	.01	--
DEC. 06...	.03	--	--	.05	.08	--	.02	.01	--
JAN. 09...	.00	--	--	.12	.12	--	.01	.01	--
FEB. 06...	.06	--	--	.22	.28	--	.03	.01	--
MAR. 06...	.09	--	--	.20	.29	--	.06	.00	--
APR. 04...	.06	--	--	.18	.24	--	.04	.01	--
MAY 30...	--	.11	.14	.22	.26	.38	.03	--	.02
JUNE 26...	--	.25	.32	.39	.64	.72	.04	--	.02
AUG. 01...	--	.07	.09	.24	.31	.46	.04	--	.03
29...	--	.06	.08	.26	.32	.32	.04	--	.03
SEP. 25...	--	.06	.08	.26	.32	.32	.03	--	.02

01439680 LITTLE BUSH KILL AT BUSHKILL, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
07...	40	5.7	6.5	12.3	92	22	E12	13
DEC.								
06...	38	6.4	4.5	13.6	310	13	52	5.0
JAN.								
09...	38	7.5	.0	14.8	E17	E2	E4	5.0
FEB.								
06...	32	7.3	3.0	14.0	72	E2	E3	5.5
MAR.								
06...	36	6.7	5.0	13.6	30	E5	E1	5.0
APR.								
04...	39	6.1	7.0	--	290	E13	E15	5.0
MAY								
30...	31	6.1	18.0	11.4	1700	E9	10	--
JUNE								
26...	38	6.1	22.0	9.2	>130	25	>400	7.6
AUG.								
01...	36	6.4	20.5	10.0	670	54	1100	8.0
29...	36	6.7	23.5	9.0	310	E6	280	6.0
SEP.								
25...	36	7.1	15.5	12.4	E100	5	180	15

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP.												
25...	1300	270	20	1	0	0	2	0	0	<.5	5	20

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)

LOCATION.--Lat 41°02'40", long 75°01'42", Monroe County, water-quality recorder on right bank opposite Poxono Island, 0.1 mile (0.2 km) upstream from mouth of Vancampens Brook, and 4.4 miles (7.0 km) northeast of East Stroudsburg.

DRAINAGE AREA.--3,830 mi^2 (9,920 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1966 to May 1973.
Water temperatures: October 1966 to May 1973.

EXTREMES.

Period of record:
Specific conductance: Maximum, 150 micromhos Mar. 21, 1969; minimum, 44 micromhos Dec. 9, 1969 and Jan. 6, 1970.
Dissolved oxygen: Maximum, 17.4 mg/l Jan. 1, 1969; minimum, 6.0 mg/l Sept. 22, 1967 and Aug. 15, 1971.
Water temperatures: Maximum, 29.0°C July 17-18, 1968; minimum, freezing point on many days during winter period.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR. 18...	0915	8660	2.5	6.5	1.3	2.7	.7	13	0	4.0	11

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR. 18...	10	4.0	.2	.30	34	22	11	70	6.7	11.0

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	65	59	61	84	57	67
2	---	---	---	---	---	---	67	61	63	61	52	55
3	---	---	---	---	---	---	67	64	65	62	55	60
4	---	---	---	---	---	---	67	62	65	64	62	---
5	---	---	---	---	---	---	69	63	65	---	---	---
6	---	---	---	---	---	---	69	63	67	---	---	---
7	---	---	---	---	---	---	63	57	59	---	---	---
8	---	---	---	---	---	---	56	50	54	---	---	---
9	---	---	---	---	---	---	54	50	52	---	---	---
10	---	---	---	---	---	---	56	52	54	---	---	---
11	---	---	---	---	---	---	57	55	56	---	---	---
12	---	---	---	---	---	---	61	56	58	---	---	---
13	---	---	---	---	---	---	70	61	65	---	---	---
14	---	---	---	---	---	---	77	68	72	---	---	---
15	---	---	---	---	---	---	85	74	78	---	---	---
16	---	---	---	---	---	---	84	80	82	---	---	---
17	---	---	---	---	---	---	91	81	85	---	---	---
18	---	---	---	---	---	---	96	85	89	---	---	---
19	---	---	---	---	---	---	90	80	85	---	---	---
20	---	---	---	---	---	---	92	80	86	---	---	---
21	---	---	---	60	59	---	94	80	85	---	---	---
22	---	---	---	63	59	60	89	80	85	---	---	---
23	---	---	---	64	59	61	76	62	65	---	---	---
24	---	---	---	65	62	64	72	64	68	---	---	---
25	---	---	---	65	62	64	84	71	77	---	---	---
26	---	---	---	70	58	63	86	82	84	---	---	---
27	---	---	---	58	54	56	90	75	81	---	---	---
28	---	---	---	59	57	58	94	79	85	---	---	---
29	---	---	---	58	55	57	98	87	92	---	---	---
30	---	---	---	64	57	60	102	90	94	---	---	---
31	---	---	---	---	---	---	98	85	93	---	---	---
MONTH	---	---	---	---	---	---	102	50	73	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	95	85	89	---	---	---
2	---	---	---	97	94	---	97	91	94	---	---	---
3	---	---	---	100	94	97	106	96	100	---	---	---
4	---	---	---	99	77	93	112	104	108	---	---	---
5	---	---	---	99	78	94	105	89	---	---	---	---
6	---	---	---	103	97	100	---	---	---	---	---	---
7	---	---	---	107	99	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	69	67	---	---	---	---	---	---	---
10	---	---	---	71	69	71	---	---	---	---	---	---
11	---	---	---	75	70	72	---	---	---	---	---	---
12	---	---	---	79	74	77	---	---	---	---	---	---
13	---	---	---	82	78	80	---	---	---	---	---	---
14	---	---	---	85	79	83	---	---	---	---	---	---
15	---	---	---	85	83	84	---	---	---	---	---	---
16	---	---	---	75	68	70	---	---	---	---	---	---
17	---	---	---	81	69	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	81	75	---	---	---	---	---	---	---
22	---	---	---	83	74	79	---	---	---	---	---	---
23	---	---	---	91	81	86	---	---	---	---	---	---
24	---	---	---	91	80	85	---	---	---	---	---	---
25	---	---	---	81	78	80	---	---	---	---	---	---
26	---	---	---	87	79	83	---	---	---	---	---	---
27	---	---	---	91	86	88	---	---	---	---	---	---
28	---	---	---	91	90	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	84	82	---	---	---	---	---	---	---
31	---	---	---	88	83	86	---	---	---	---	---	---
MONTH	---	---	---	107	67	---	---	---	---	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	14.4	13.5	---
12	---	---	---	---	---	---	---	---	---	14.3	12.6	13.3
13	---	---	---	---	---	---	---	---	---	13.8	11.5	12.6
14	---	---	---	---	---	---	---	---	---	12.7	11.0	11.9
15	---	---	---	---	---	---	---	---	---	12.4	11.3	12.0
16	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
17	---	---	---	---	---	---	---	---	---	13.3	11.3	12.3
18	---	---	---	---	---	---	---	---	---	14.3	11.0	12.5
19	---	---	---	---	---	---	---	---	---	13.7	11.1	12.3
20	---	---	---	---	---	---	---	---	---	14.1	12.0	13.0
21	---	---	---	---	---	---	---	---	---	16.2	12.3	13.9
22	---	---	---	---	---	---	---	---	---	16.8	14.1	15.8
23	---	---	---	---	---	---	---	---	---	13.9	12.3	13.0
24	---	---	---	---	---	---	---	---	---	14.1	12.0	13.1
25	---	---	---	---	---	---	---	---	---	13.7	11.7	12.7
26	---	---	---	---	---	---	---	---	---	13.3	10.8	12.3
27	---	---	---	---	---	---	---	---	---	14.7	11.9	12.8
28	---	---	---	---	---	---	---	---	---	14.2	13.6	13.9
29	---	---	---	---	---	---	---	---	---	14.6	14.1	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	15.3	14.2	---	9.5	8.8	9.2	---	---	---
2	---	---	---	15.2	14.5	---	9.2	8.7	9.0	---	---	---
3	---	---	---	15.5	14.8	15.2	9.3	8.9	9.1	---	---	---
4	---	---	---	15.2	13.2	14.3	9.9	9.3	9.6	---	---	---
5	---	---	---	14.3	12.4	13.3	10.4	9.8	---	---	---	---
6	---	---	---	14.8	12.8	13.4	---	---	---	---	---	---
7	---	---	---	16.2	13.7	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	13.0	12.1	---	---	---	---	---	---	---
10	---	---	---	13.4	11.8	12.6	---	---	---	---	---	---
11	---	---	---	12.4	12.1	12.3	---	---	---	---	---	---
12	---	---	---	12.1	11.0	11.6	---	---	---	---	---	---
13	---	---	---	11.2	10.2	10.9	---	---	---	---	---	---
14	---	---	---	11.5	11.0	11.3	---	---	---	---	---	---
15	---	---	---	12.2	11.6	12.0	---	---	---	---	---	---
16	---	---	---	13.1	12.5	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	13.5	11.2	---	12.8	11.4	---	---	---	---	---	---	---
24	14.9	12.5	13.5	12.7	10.8	11.7	---	---	---	---	---	---
25	17.0	12.7	14.3	12.1	11.4	11.6	---	---	---	---	---	---
26	16.2	13.5	14.4	11.5	10.6	11.1	---	---	---	---	---	---
27	16.5	12.6	14.7	10.6	9.7	10.2	---	---	---	---	---	---
28	18.4	12.5	15.1	10.4	10.2	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	10.0	9.8	---	---	---	---	---	---	---
31	---	---	---	10.0	9.5	9.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.0	6.9	6.9	7.0	6.9	7.0
2	---	---	---	---	---	---	7.0	6.9	7.0	6.9	6.8	6.9
3	---	---	---	---	---	---	7.0	7.0	7.0	6.9	6.8	6.9
4	---	---	---	---	---	---	7.0	7.0	7.0	7.0	6.9	6.9
5	---	---	---	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9
6	---	---	---	---	---	---	7.1	7.0	7.0	6.9	6.9	6.9
7	---	---	---	---	---	---	7.0	6.8	6.9	6.9	6.9	6.9
8	---	---	---	---	---	---	6.9	6.8	6.9	7.0	6.9	6.9
9	---	---	---	---	---	---	6.9	6.8	6.9	7.0	6.9	6.9
10	---	---	---	---	---	---	6.9	6.8	6.9	7.0	6.9	6.9
11	---	---	---	---	---	---	6.9	6.9	6.9	7.0	6.9	7.0
12	---	---	---	---	---	---	6.9	6.9	6.9	7.1	7.0	7.0
13	---	---	---	---	---	---	7.0	6.9	6.9	7.1	7.0	7.1
14	---	---	---	---	---	---	7.0	6.9	7.0	7.1	7.0	7.1
15	---	---	---	---	---	---	7.0	6.9	7.0	7.1	7.0	7.1
16	---	---	---	---	---	---	7.0	7.0	7.0	7.1	7.0	7.1
17	---	---	---	---	---	---	7.0	7.0	7.0	7.1	7.0	7.0
18	---	---	---	---	---	---	7.0	7.0	7.0	7.1	7.0	7.1
19	---	---	---	---	---	---	7.1	7.0	7.0	7.1	7.0	7.1
20	---	---	---	---	---	---	7.1	7.0	7.0	7.1	7.0	7.1
21	---	---	---	6.9	6.9	---	7.0	7.0	7.0	7.1	7.0	7.0
22	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	7.0	7.0	7.0
23	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	7.0	6.9	7.0
24	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.8	6.9
25	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0	6.9	6.8	6.9
26	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9
27	---	---	---	6.9	6.9	6.9	7.0	7.0	7.0	6.9	6.7	6.9
28	---	---	---	6.9	6.9	6.9	7.0	7.0	7.0	6.7	6.7	6.7
29	---	---	---	6.9	6.9	6.9	7.0	7.0	7.0	6.7	6.6	---
30	---	---	---	7.0	6.9	6.9	7.0	7.0	7.0	---	---	---
31	---	---	---	---	---	---	7.0	7.0	7.0	---	---	---
MONTH	---	---	---	---	---	---	7.1	6.8	7.0	7.1	6.6	7.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.2	7.1	7.1	7.2	7.1	7.2	---	---	---
2	---	---	---	7.5	7.1	7.3	7.2	7.1	7.1	---	---	---
3	---	---	---	7.5	7.4	7.4	7.2	7.1	7.1	---	---	---
4	---	---	---	7.5	7.3	7.4	7.1	7.1	7.1	---	---	---
5	---	---	---	7.5	7.3	7.4	7.2	7.1	---	---	---	---
6	---	---	---	7.4	7.2	7.3	---	---	---	---	---	---
7	---	---	---	7.3	7.2	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	7.2	7.0	---	---	---	---	---	---	---
10	---	---	---	7.0	6.9	7.0	---	---	---	---	---	---
11	---	---	---	7.0	6.9	6.9	---	---	---	---	---	---
12	---	---	---	7.1	6.9	7.0	---	---	---	---	---	---
13	---	---	---	7.2	7.0	7.1	---	---	---	---	---	---
14	---	---	---	7.0	7.0	7.0	---	---	---	---	---	---
15	---	---	---	7.0	6.9	7.0	---	---	---	---	---	---
16	---	---	---	7.1	6.9	7.0	---	---	---	---	---	---
17	---	---	---	7.0	6.7	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	7.1	7.0	---	---	---	---	---	---	---
22	---	---	---	7.0	6.9	7.0	---	---	---	---	---	---
23	7.2	7.1	---	7.1	6.9	7.0	---	---	---	---	---	---
24	7.1	7.0	7.1	7.1	6.9	7.1	---	---	---	---	---	---
25	7.2	7.0	7.1	7.2	6.9	7.1	---	---	---	---	---	---
26	7.2	7.1	7.1	7.1	6.9	7.0	---	---	---	---	---	---
27	7.2	7.1	7.1	7.2	7.0	7.1	---	---	---	---	---	---
28	7.2	7.1	7.1	7.0	7.0	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	7.1	6.9	---	---	---	---	---	---	---
31	---	---	---	7.3	7.1	7.2	---	---	---	---	---	---
MONTH	---	---	---	7.5	6.7	---	---	---	---	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR TOCKS ISLAND DAMSITE)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	3.0	3.0	3.0	5.0	4.5	4.5
2	---	---	---	---	---	---	3.5	3.0	3.0	4.5	4.0	4.0
3	---	---	---	---	---	---	4.0	3.5	3.5	4.0	3.5	3.5
4	---	---	---	---	---	---	4.0	3.5	3.5	3.5	3.0	3.0
5	14.5	14.0	---	---	---	---	4.0	3.5	3.5	3.5	3.0	3.0
6	14.5	14.0	14.5	---	---	---	4.5	4.0	4.0	3.0	1.5	2.0
7	14.5	14.0	14.5	---	---	---	4.5	3.5	4.0	1.5	1.0	1.0
8	14.0	13.5	13.5	---	---	---	3.0	3.0	3.0	2.0	1.0	1.0
9	13.5	11.5	12.5	---	---	---	3.5	2.0	3.0	1.5	0.5	1.0
10	11.5	10.5	11.0	---	---	---	4.0	3.5	3.5	1.5	0.5	1.0
11	10.5	10.0	10.5	---	---	---	4.5	4.0	4.0	1.5	1.0	1.0
12	10.5	10.5	10.5	---	---	---	4.0	3.0	3.5	1.5	1.0	1.5
13	11.0	10.0	10.5	---	---	---	3.5	3.0	3.0	2.0	1.5	1.5
14	10.5	10.0	10.0	---	---	---	3.5	3.0	3.5	3.0	1.5	2.0
15	10.0	9.5	10.0	---	---	---	3.5	3.0	3.0	2.0	1.5	2.0
16	9.5	9.0	9.0	---	---	---	3.0	1.5	2.0	2.0	2.0	2.0
17	9.5	9.0	9.0	---	---	---	1.5	1.0	1.0	2.0	1.5	2.0
18	9.0	8.5	8.5	---	---	---	1.0	1.0	1.0	3.0	1.5	2.0
19	8.5	8.0	---	---	---	---	1.5	1.0	1.0	3.5	1.5	2.5
20	---	---	---	---	---	---	2.0	1.5	1.5	3.5	2.0	2.5
21	---	---	---	4.5	4.5	---	3.0	2.0	2.0	2.0	1.0	1.5
22	---	---	---	4.5	3.5	3.5	3.5	2.0	3.0	2.0	1.0	1.0
23	---	---	---	3.5	3.0	3.0	3.5	3.0	3.0	3.5	2.0	2.5
24	---	---	---	3.5	2.0	3.0	3.5	2.0	3.0	3.0	2.0	2.5
25	---	---	---	3.5	2.0	2.5	4.0	3.5	3.5	3.5	2.0	3.0
26	---	---	---	5.0	3.5	4.5	4.5	4.0	4.5	4.0	3.0	3.5
27	---	---	---	5.0	4.5	5.0	4.5	4.0	4.5	3.5	2.0	3.0
28	---	---	---	5.0	4.5	4.5	4.0	4.0	4.0	3.0	2.0	3.0
29	---	---	---	5.0	4.0	4.5	4.0	3.0	3.5	2.0	2.0	---
30	---	---	---	4.0	3.0	3.5	3.5	3.0	3.0	---	---	---
31	---	---	---	---	---	---	4.0	3.0	3.5	---	---	---
MONTH	---	---	---	---	---	---	4.5	1.0	3.0	5.0	0.5	2.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	3.5	1.5	2.5	8.5	8.5	8.5	---	---	---
2	---	---	---	4.5	3.5	3.5	8.5	8.5	8.5	---	---	---
3	---	---	---	4.5	4.0	4.0	8.5	8.0	8.0	---	---	---
4	---	---	---	5.0	4.0	4.5	8.0	7.0	7.5	---	---	---
5	---	---	---	4.5	4.0	4.5	7.0	6.5	---	---	---	---
6	---	---	---	4.5	3.5	4.0	---	---	---	---	---	---
7	---	---	---	3.5	3.5	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	5.5	5.0	---	---	---	---	---	---	---
10	---	---	---	6.0	4.5	5.0	---	---	---	---	---	---
11	---	---	---	5.5	5.5	5.5	---	---	---	---	---	---
12	---	---	---	6.0	5.5	5.5	---	---	---	---	---	---
13	---	---	---	8.0	6.0	6.5	---	---	---	---	---	---
14	---	---	---	6.5	6.0	6.5	---	---	---	---	---	---
15	---	---	---	6.0	5.5	6.0	---	---	---	---	---	---
16	---	---	---	6.0	5.5	5.5	---	---	---	---	---	---
17	---	---	---	7.0	6.0	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	4.5	4.5	---	---	---	---	---	---	---
22	---	---	---	4.5	4.0	4.0	---	---	---	---	---	---
23	2.0	1.0	---	5.0	3.5	4.5	---	---	---	---	---	---
24	1.5	1.0	1.0	6.0	4.0	5.0	---	---	---	---	---	---
25	2.0	0.5	1.0	6.0	5.0	5.5	---	---	---	---	---	---
26	2.0	1.5	1.5	6.5	6.0	6.0	---	---	---	---	---	---
27	1.5	1.0	1.0	8.5	6.5	7.5	---	---	---	---	---	---
28	2.0	0.5	1.5	8.0	7.0	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	8.0	6.5	---	---	---	---	---	---	---
31	---	---	---	8.5	7.0	8.0	---	---	---	---	---	---
MONTH	---	---	---	8.5	1.5	---	---	---	---	---	---	---

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 41°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, and 4.0 miles (6.4 km) downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 mi^2 (10,749 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-72 (partial-record station), October 1972 to September 1973.
Water temperatures: October 1966 to September 1973.
Sediment records: July 1964 to September 1973.

EXTREMES.

Period of record:
Water temperatures: Maximum daily, 28.0°C July 28, 1968; minimum daily, freezing point on many days during winter period.

REMARKS.--Sediment data for this station on page 325. Records of discharge are given for 01440200 Delaware River below Tocks Island damsite near Delaware Water Gap, Pa.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.										
26...	1015	--	--	--	--	--	--	--	--	85
DEC.										
20...	1200	7340	.24	--	.06	.16	.22	.01	.01	86
FEB.										
14...	1115	7540	.18	--	.09	.05	.14	.03	.03	88
APR.										
17...	0830	9700	--	--	--	--	--	--	--	73
MAY										
22...	0945	28310	.29	.00	.05	--	.22	.03	.00	56
JUNE										
20...	1230	4250	--	--	--	--	--	--	--	92
JULY										
11...	1130	6820	--	--	--	--	--	--	--	70
AUG.										
16...	1230	--	.18	.01	.15	.06	.21	.08	.07	81
SEP.										
25...	1030	--	--	--	--	--	--	--	--	104

DATE	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
OCT.									
26...	7.6	8.8	11.2	.6	50	5	16	--	--
DEC.									
20...	7.2	.8	13.2	--	--	--	--	3.5	--
FEB.									
14...	7.3	.2	14.4	1.1	40	24	6	5.0	--
APR.									
17...	7.9	9.8	11.2	.4	788	--	118	--	--
MAY									
22...	7.4	11.1	10.8	.8	880	80	20	4.4	.8
JUNE									
20...	7.3	20.0	10.0	.8	1180	140	272	--	--
JULY									
11...	7.8	23.6	8.8	.8	5000	7600	410	--	--
AUG.									
16...	7.7	21.7	9.6	1.3	3200	--	300	2.0	3.0
SEP.									
25...	7.6	15.8	9.6	1.0	13200	--	433	--	--

DELAWARE RIVER BASIN

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
AUG. 16...	4.5	100	20	8.9	1.6	3.4	.7	23	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
AUG. 16...	19	18	4.5	.2	.41	29	10	.7

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	9.0	3.0	4.0	---	4.0	---	12.0	19.0	20.0	24.0	---
2	---	8.0	---	2.0	---	---	9.0	---	---	20.0	23.0	24.0
3	16.0	4.0	4.0	2.0	1.0	4.0	---	14.0	22.0	---	24.0	---
4	---	---	---	2.0	2.0	---	7.0	---	20.0	20.0	22.0	23.0
5	12.0	9.0	4.0	2.0	2.0	6.0	7.0	10.0	20.0	20.0	22.0	---
6	---	---	4.0	2.0	2.0	---	7.0	---	---	20.0	---	24.0
7	14.0	4.0	3.0	2.0	2.0	---	4.0	11.0	19.0	---	24.0	---
8	---	---	4.0	1.0	2.0	7.0	7.0	---	20.0	22.0	---	23.0
9	12.0	4.0	3.0	---	2.0	---	8.0	11.0	23.0	---	---	---
10	10.0	7.0	4.0	---	---	6.0	8.0	12.0	---	24.0	22.0	22.0
11	---	7.0	4.0	---	2.0	7.0	7.0	---	24.0	---	---	---
12	14.0	7.0	---	---	2.0	7.0	7.0	12.0	---	---	23.0	23.0
13	---	8.0	4.0	---	1.0	7.0	7.0	13.0	21.0	22.0	---	---
14	10.0	7.0	---	---	---	7.0	6.0	12.0	---	---	24.0	21.0
15	---	6.0	2.0	---	1.0	7.0	---	12.0	21.0	---	---	21.0
16	11.0	6.0	2.0	---	---	---	7.0	12.0	---	---	24.0	---
17	---	6.0	2.0	---	---	4.0	---	11.0	20.0	25.0	---	21.0
18	10.0	6.0	---	---	---	4.0	8.0	11.0	20.0	---	---	---
19	---	6.0	2.0	0.0	1.0	7.0	---	12.0	---	25.0	23.0	21.0
20	12.0	5.0	1.0	---	1.0	5.0	---	---	---	---	---	---
21	---	3.0	1.0	0.0	1.0	7.0	9.0	12.0	21.0	---	25.0	22.0
22	12.0	3.0	1.0	0.0	---	4.0	---	12.0	---	22.0	---	20.0
23	---	---	1.0	0.0	2.0	---	9.0	13.0	---	---	25.0	---
24	13.0	4.0	---	0.0	---	7.0	7.0	11.0	21.0	---	---	---
25	---	4.0	---	1.0	---	---	---	---	21.0	24.0	25.0	18.0
26	12.0	4.0	2.0	0.0	2.0	8.0	9.0	13.0	---	24.0	---	---
27	---	3.0	2.0	---	---	---	9.0	---	23.0	---	25.0	19.0
28	12.0	4.0	---	---	2.0	8.0	9.0	12.0	---	---	---	---
29	12.0	4.0	---	0.0	---	---	11.0	12.0	20.0	23.0	25.0	20.0
30	12.0	4.0	4.0	0.0	---	8.0	11.0	13.0	20.0	---	---	---
31	---	---	4.0	---	---	---	---	12.0	---	22.0	25.0	---

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N.J.)

LOCATION.--Lat 40°47'20", long 75°06'59", Northampton County, at Pennsylvania Railroad crossing 900 ft (274 m) upstream from Oughoughton Creek, 4.7 miles (7.5 km) east of Martins Creek.

DRAINAGE AREA.--4,546 mi^2 (11,774 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are given for 01446500 Delaware River at Belvidere, N.J.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.							
19...	0940	2590	.20	.16	.03	.02	115
NOV.							
16...	1100	37200	.32	.41	.07	.03	64
FEB.							
01...	1115	7490	.41	.31	.03	.02	106
22...	1135	6240	.43	.12	.03	.01	140
MAR.							
22...	1110	40800	.41	.40	.05	.03	75
APR.							
26...	1215	8440	.36	.32	.03	.02	98
MAY							
24...	1205	34500	.16	.24	.03	.01	65
JUNE							
21...	1030	4830	--	.44	.04	--	110

DATE	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.							
19...	7.5	17.0	3	--	--	--	7.0
NOV.							
16...	7.1	--	9	12.4	1850	775	8.5
FEB.							
01...	7.4	.0	6	15.0	--	--	6.0
22...	7.5	7.0	1	12.8	--	--	7.0
MAR.							
22...	7.5	4.0	3	12.8	--	--	--
APR.							
26...	6.9	15.0	1	--	--	--	5.0
MAY							
24...	7.2	14.0	2	10.1	213	47	--
JUNE							
21...	6.4	30.0	--	8.0	120	2000	1.9

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
FEB.										
01...	1115	--	20	50	25	7.3	2.8	--	11	--
MAR.										
22...	1110	--	200	100	45	7.5	1.8	--	4.5	--
JUNE										
21...	1030	1.8	0	--	60	13	3.1	4.1	--	1.1

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N.J.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB. 01...	26	0	21	22	4.9	--	--	--	--
MAR. 22...	16	--	13	16	3.3	--	--	--	--
JUNE 21...	19	0	16	32	6.5	.0	.12	.00	.12

DATE	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
FEB. 01...	--	--	--	--	72	--	1	30	8
MAR. 22...	.15	--	.25	--	51	--	3	26	13
JUNE 21...	--	.45	--	.01	89	73	--	45	30

DATE	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB. 01...	2	3.3	.00	2	10	--	2	2	120
MAR. 22...	4	1.6	.02	0	<10	--	0	5	110
JUNE 21...	--	19	.01	--	0	3	0	5	800

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
MAR. 22...	1110	54	<.5	<.4	2.1	<.4	1.7	<.4

01446700 DELAWARE RIVER AT EASTON, PA.

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, at gaging station on right bank 200 ft (61 m) from city of Easton pumping station, 1.2 miles (1.9 km) upstream from Bushkill Creek in Easton.

DRAINAGE AREA.--4,636 mi^2 (12,007 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1951, October 1957 to September 1958, November 1967 to September 1973.

Water temperatures: October 1947 to September 1949, October 1957 to September 1958, October 1963 to September 1964, November 1967 to September 1973.

EXTREMES.

Period of record:

Specific conductance (1967-73): Maximum, 499 micromhos Nov. 26, 1970; minimum, 40 micromhos Apr. 6, 1970.

Dissolved oxygen (1967-73): Maximum, 15.8 mg/l Mar. 8, 1968; minimum, 5.7 mg/l July 19-20, 24, 1968.

pH (1967-73): Maximum, 9.8 May 16, 1970; minimum, 5.7 May 24, 1970.

Water temperatures: Maximum, 30.0°C July 18, 1968, July 28-29, 1970; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	120	110	117	121	100	112
2	---	---	---	---	---	---	123	119	120	100	90	97
3	---	---	---	---	---	---	130	123	126	98	90	93
4	---	---	---	---	---	---	131	119	123	110	98	105
5	---	---	---	---	---	---	125	119	121	116	110	115
6	---	---	---	---	---	---	128	115	121	121	112	116
7	---	---	---	---	---	---	123	98	112	122	120	---
8	---	---	---	---	---	---	112	99	102	---	---	---
9	---	---	---	---	---	---	113	103	105	---	---	---
10	---	---	---	---	---	---	111	105	108	---	---	---
11	---	---	---	---	---	---	116	109	111	148	146	---
12	---	---	---	---	---	---	121	115	117	148	145	147
13	---	---	---	---	---	---	130	117	121	149	147	149
14	---	---	---	---	---	---	120	115	118	151	148	149
15	---	---	---	---	---	---	128	115	119	152	148	150
16	---	---	---	---	---	---	131	128	130	147	145	146
17	---	---	---	---	---	---	131	129	130	145	142	143
18	---	---	---	---	---	---	132	129	130	147	144	145
19	---	---	---	---	---	---	135	130	131	147	141	144
20	---	---	---	---	---	---	132	129	131	148	146	147
21	---	---	---	---	---	---	132	130	130	145	132	140
22	---	---	---	---	---	---	137	130	133	137	132	---
23	---	---	---	---	---	---	130	112	119	---	---	---
24	---	---	---	---	---	---	119	112	114	---	---	---
25	---	---	---	---	---	---	119	113	116	---	---	---
26	---	---	---	---	---	---	120	113	117	119	118	---
27	---	---	---	---	---	---	119	112	114	126	119	122
28	---	---	---	---	---	---	119	113	116	130	128	129
29	---	---	---	---	---	---	124	116	120	140	129	133
30	---	---	---	110	105	---	126	120	122	140	134	137
31	---	---	---	---	---	---	129	120	124	139	129	134
MONTH	---	---	---	---	---	---	137	98	120	152	90	---

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N.J.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
FEB. 01...	26	0	21	22	4.9	--	--	--	--
MAR. 22...	16	--	13	16	3.3	--	--	--	--
JUNE 21...	19	0	16	32	6.5	.0	.12	.00	.12

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
FEB. 01...	--	--	--	--	72	--	1	30	8
MAR. 22...	.15	--	.25	--	51	--	3	26	13
JUNE 21...	--	.45	--	.01	89	73	--	45	30

DATE	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
FEB. 01...	2	3.3	.00	2	10	--	2	2	120
MAR. 22...	4	1.6	.02	0	<10	--	0	5	110
JUNE 21...	--	19	.01	--	0	3	0	5	800

DATE	TIME	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
MAR. 22...	1110	54	<.5	<.4	2.1	<.4	1.7	<.4

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	148	128	139	142	135	---	---	---	---	160	153	159
2	151	137	---	149	133	140	---	---	---	152	129	140
3	---	---	---	140	138	140	---	---	---	149	120	135
4	---	---	---	145	132	139	---	---	---	142	140	140
5	---	---	---	133	121	129	119	110	---	149	140	143
6	---	---	---	120	110	114	121	110	117	149	142	146
7	118	110	---	111	109	110	120	111	117	149	140	145
8	125	118	120	120	109	115	120	110	117	142	140	141
9	128	120	125	119	99	108	121	114	119	150	142	149
10	129	120	125	99	98	98	135	115	125	150	140	146
11	133	127	129	99	99	99	125	110	118	140	120	133
12	138	127	132	99	99	99	122	112	118	130	120	122
13	137	129	132	100	100	100	139	120	125	130	120	122
14	140	130	134	100	100	100	140	130	137	131	125	130
15	142	130	138	100	100	100	141	130	137	139	130	134
16	139	130	132	100	99	100	146	132	140	139	137	138
17	143	130	138	99	99	99	149	140	142	138	130	132
18	148	138	143	100	92	98	150	140	147	138	130	134
19	148	140	143	99	90	96	149	148	149	131	130	130
20	148	130	138	99	97	98	150	148	149	130	129	130
21	135	128	130	100	97	99	150	148	150	137	130	131
22	139	132	137	109	100	103	156	153	154	131	122	130
23	136	130	133	109	101	107	160	159	160	129	118	120
24	138	129	133	110	107	109	160	150	157	132	128	130
25	140	132	136	111	109	110	159	149	156	130	129	130
26	145	131	138	120	110	117	169	159	166	130	130	130
27	149	144	148	120	108	112	170	168	169	135	130	131
28	145	140	142	109	107	108	171	168	170	148	137	140
29	---	---	---	110	108	109	170	168	169	149	140	---
30	---	---	---	110	109	---	169	160	167	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	151	110	135	149	90	109	171	110	143	160	118	135

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	130	127	---	---	---	---	---	---	---	119	113	116
2	128	110	121	---	---	---	---	---	---	120	115	117
3	115	110	111	---	---	---	---	---	---	124	115	120
4	110	108	109	---	---	---	---	---	---	130	120	127
5	108	91	102	---	---	---	---	---	---	132	130	---
6	110	93	100	---	---	---	---	---	---	---	---	---
7	119	110	114	---	---	---	134	118	---	---	---	---
8	110	90	95	---	---	---	120	118	118	---	---	---
9	90	90	90	---	---	---	118	114	116	---	---	---
10	99	91	98	---	---	---	118	114	115	---	---	---
11	100	99	99	---	---	---	120	117	118	---	---	---
12	101	100	100	---	---	---	125	119	120	---	---	---
13	110	101	107	---	---	---	140	130	135	---	---	---
14	111	110	110	---	---	---	165	140	147	---	---	---
15	114	110	110	---	---	---	140	135	137	---	---	---
16	120	112	118	---	---	---	140	128	139	---	---	---
17	130	120	125	---	---	---	120	110	111	---	---	---
18	140	133	137	---	---	---	112	110	111	---	---	---
19	140	140	140	---	---	---	120	112	114	---	---	---
20	142	140	140	---	---	---	130	122	128	133	132	---
21	142	137	140	---	---	---	135	125	131	---	---	---
22	137	135	136	---	---	---	130	120	124	---	---	---
23	135	117	125	---	---	---	123	120	121	---	---	---
24	---	---	---	---	---	---	132	123	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	120	110	---	---	---	---	---	---	---	---	---	---
28	116	110	113	---	---	---	---	---	---	---	---	---
29	130	114	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	118	110	---	---	---	---
31	---	---	---	---	---	---	113	110	111	---	---	---
MONTH	142	90	---	---	---	---	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	14.2	13.5	13.8
2	---	---	---	---	---	---	---	---	---	14.3	13.2	13.9
3	---	---	---	---	---	---	---	---	---	14.1	13.2	13.9
4	---	---	---	---	---	---	---	---	---	14.3	13.3	13.8
5	---	---	---	---	---	---	---	---	---	13.4	13.3	13.3
6	---	---	---	---	---	---	---	---	---	13.7	13.2	13.5
7	---	---	---	---	---	---	---	---	---	13.8	13.7	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	14.6	14.4	---
12	---	---	---	---	---	---	---	---	---	14.9	14.3	14.6
13	---	---	---	---	---	---	14.9	14.1	---	15.3	14.6	15.0
14	---	---	---	---	---	---	15.0	14.2	14.5	15.4	15.0	15.2
15	---	---	---	---	---	---	15.0	14.6	14.8	15.2	14.8	15.0
16	---	---	---	---	---	---	14.9	14.4	14.6	15.3	14.7	15.0
17	---	---	---	---	---	---	15.9	14.9	15.4	15.2	14.8	15.0
18	---	---	---	---	---	---	15.9	15.3	15.8	15.3	14.9	15.1
19	---	---	---	---	---	---	15.9	15.2	15.7	15.0	13.8	14.5
20	---	---	---	---	---	---	15.7	15.3	15.5	13.9	13.5	13.6
21	---	---	---	---	---	---	15.6	15.3	15.4	14.5	13.7	14.1
22	---	---	---	---	---	---	15.4	15.1	15.3	14.3	14.0	---
23	---	---	---	---	---	---	15.3	15.2	15.2	---	---	---
24	---	---	---	---	---	---	15.3	15.0	15.2	---	---	---
25	---	---	---	---	---	---	15.3	15.0	15.1	---	---	---
26	---	---	---	---	---	---	15.1	14.5	14.9	14.0	13.5	---
27	---	---	---	---	---	---	14.9	14.5	14.7	14.1	13.7	13.9
28	---	---	---	---	---	---	14.5	13.3	13.8	13.9	13.4	13.7
29	---	---	---	---	---	---	13.5	13.1	13.3	14.1	13.3	13.7
30	---	---	---	---	---	---	13.8	13.4	13.5	14.8	13.9	14.4
31	---	---	---	---	---	---	14.5	13.5	14.0	14.9	14.4	14.7
MONTH	---	---	---	---	---	---	---	---	---	15.4	13.2	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.1	14.3	14.7	14.7	13.5	---	11.5	10.6	11.2	10.7	9.9	10.4
2	14.3	13.5	---	14.7	13.3	13.9	11.2	10.7	11.1	10.4	9.6	10.0
3	---	---	---	13.4	12.9	13.2	11.2	10.9	11.0	10.0	9.3	9.6
4	---	---	---	13.9	12.6	13.2	11.5	11.0	11.2	10.0	9.2	9.7
5	---	---	---	13.5	12.6	13.0	11.4	11.1	11.3	10.4	9.6	10.0
6	---	---	---	13.9	12.6	13.1	11.7	11.2	11.6	11.0	10.0	10.5
7	13.2	12.6	---	13.3	12.8	13.1	11.9	11.6	11.8	10.9	9.9	10.4
8	12.8	12.1	12.6	13.9	12.5	13.2	11.9	11.7	11.8	10.0	9.6	9.7
9	13.7	12.8	13.2	13.8	12.9	13.3	12.2	11.7	11.9	9.8	9.3	9.5
10	14.2	13.6	14.0	13.6	12.7	13.2	11.9	11.5	11.7	9.9	9.2	9.5
11	14.6	14.2	14.4	13.0	12.4	12.7	11.8	11.5	11.7	9.2	9.0	9.1
12	14.6	14.2	14.4	13.1	12.3	12.7	12.2	11.7	11.9	9.3	9.1	9.2
13	15.0	14.5	14.7	13.3	12.4	12.8	12.1	11.7	11.9	9.6	9.3	9.5
14	15.1	14.4	14.8	13.0	12.4	12.6	11.8	11.5	11.6	10.0	9.6	9.9
15	14.8	14.4	14.6	12.7	12.2	12.5	11.5	11.2	11.4	10.2	9.8	10.0
16	14.5	13.9	14.2	13.4	12.2	12.7	11.2	10.6	11.0	10.4	10.0	10.2
17	15.2	14.1	14.8	12.6	11.7	12.3	10.6	10.3	10.5	10.2	9.8	10.0
18	15.2	14.6	14.9	12.4	11.8	12.2	10.4	9.8	10.1	10.0	9.7	9.9
19	15.2	14.7	14.9	12.6	11.8	12.3	10.1	9.5	9.8	10.2	9.9	10.1
20	15.0	14.4	14.7	13.0	12.4	12.8	9.8	9.1	9.4	10.3	10.1	10.2
21	14.9	14.1	14.5	13.7	12.7	13.3	9.8	8.9	9.3	10.1	10.1	10.1
22	14.3	13.4	13.9	13.5	12.8	13.2	9.8	8.8	9.2	10.3	10.0	10.2
23	14.5	13.2	13.8	14.1	12.9	13.5	9.2	8.5	8.8	10.0	9.8	9.9
24	14.9	13.4	14.2	14.0	13.1	13.6	9.4	8.3	8.8	10.0	9.8	9.9
25	14.8	13.7	14.1	13.9	12.6	13.2	9.2	8.2	8.7	9.9	9.6	9.8
26	14.7	13.5	14.0	13.1	12.5	12.8	9.1	8.5	8.8	9.9	9.5	9.7
27	14.7	13.5	14.0	13.3	12.4	12.8	9.2	8.9	9.1	9.6	9.3	9.4
28	14.9	13.7	14.2	13.2	12.2	12.7	9.5	9.1	9.3	9.5	9.1	9.3
29	---	---	---	13.3	12.3	12.7	10.5	9.4	9.9	9.2	9.0	---
30	---	---	---	12.4	11.5	12.1	10.8	10.3	10.5	---	---	---
31	---	---	---	12.4	11.3	11.8	---	---	---	---	---	---
MONTH	15.2	12.1	14.3	14.7	11.3	12.9	12.2	8.2	10.5	11.0	9.0	9.8

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE MAX	JUNE MIN	JUNE MEAN	JULY MAX	JULY MIN	JULY MEAN	AUGUST MAX	AUGUST MIN	AUGUST MEAN	SEPTEMBER MAX	SEPTEMBER MIN	SEPTEMBER MEAN
1	8.9	8.4	---	---	---	---	---	---	---	---	---	---
2	8.8	8.3	8.6	---	---	---	---	---	---	---	---	---
3	9.0	8.4	8.7	---	---	---	---	---	---	---	---	---
4	9.2	8.5	8.8	---	---	---	---	---	---	---	---	---
5	9.1	8.4	8.7	---	---	---	---	---	---	---	---	---
6	8.9	8.1	8.5	---	---	---	---	---	---	---	---	---
7	8.8	7.9	8.3	---	---	---	---	---	---	---	---	---
8	8.2	7.8	8.0	---	---	---	---	---	---	---	---	---
9	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
10	8.2	7.8	8.0	---	---	---	---	---	---	---	---	---
11	8.4	7.8	8.1	---	---	---	---	---	---	---	---	---
12	8.4	7.7	8.0	---	---	---	---	---	---	---	---	---
13	8.2	7.6	7.9	---	---	---	---	---	---	---	---	---
14	8.5	7.7	8.1	---	---	---	---	---	---	---	---	---
15	8.8	7.8	8.3	---	---	---	---	---	---	---	---	---
16	8.4	7.8	8.1	---	---	---	---	---	---	---	---	---
17	9.9	7.8	9.1	---	---	---	---	---	---	---	---	---
18	10.0	9.8	9.9	---	---	---	---	---	---	---	---	---
19	10.2	9.8	10.0	---	---	---	---	---	---	---	---	---
20	10.2	9.2	9.6	---	---	---	---	---	---	---	---	---
21	9.7	9.0	9.4	---	---	---	---	---	---	9.8	9.5	---
22	10.0	8.3	9.4	---	---	---	---	---	---	---	---	---
23	9.7	8.1	8.9	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER MAX	OCTOBER MIN	OCTOBER MEAN	NOVEMBER MAX	NOVEMBER MIN	NOVEMBER MEAN	DECEMBER MAX	DECEMBER MIN	DECEMBER MEAN	JANUARY MAX	JANUARY MIN	JANUARY MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	7.1	7.1	---
5	---	---	---	---	---	---	---	---	---	7.1	7.1	7.1
6	---	---	---	---	---	---	---	---	---	7.1	7.1	7.1
7	---	---	---	---	---	---	---	---	---	7.1	7.1	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.3	7.5	---	7.4	7.3	7.3	8.2	7.2	7.7
2	---	---	---	8.5	7.4	8.0	7.4	7.2	7.3	8.4	7.2	7.7
3	---	---	---	7.9	7.4	7.5	7.6	7.1	7.3	8.1	7.3	7.7
4	---	---	---	8.2	7.3	7.7	7.1	7.0	7.0	8.1	7.4	7.8
5	---	---	---	8.3	7.3	7.8	7.4	7.1	7.2	7.9	7.5	7.7
6	---	---	---	7.6	7.4	7.5	8.0	7.0	7.5	8.8	7.4	8.1
7	7.7	7.2	---	7.4	7.3	7.4	9.2	7.0	8.0	9.0	7.4	8.2
8	7.6	7.0	7.2	7.8	7.3	7.5	7.4	7.0	7.1	8.0	7.4	7.7
9	8.2	7.6	7.9	8.1	7.2	7.6	7.8	7.2	7.6	8.0	7.3	7.5
10	8.0	7.8	7.9	7.7	7.2	7.4	7.6	7.1	7.4	8.7	7.3	7.9
11	7.9	7.7	7.8	7.2	7.1	7.2	8.5	7.3	7.8	7.9	7.2	7.5
12	8.3	7.7	8.0	7.5	7.1	7.3	7.4	7.2	7.3	7.6	6.9	7.2
13	8.2	7.7	7.9	7.8	7.3	7.5	7.5	7.2	7.3	7.7	6.9	7.3
14	7.9	7.1	7.6	7.5	7.3	7.4	7.6	7.3	7.4	7.8	7.0	7.4
15	7.5	7.0	7.2	7.3	7.2	7.2	7.7	7.2	7.5	7.3	7.0	7.0
16	7.8	7.2	7.6	7.8	7.2	7.4	7.8	7.2	7.5	7.6	7.0	7.3
17	7.9	7.5	7.7	7.7	7.1	7.3	7.6	7.2	7.4	7.7	7.0	7.3
18	7.9	7.6	7.7	7.3	7.2	7.3	7.8	7.1	7.5	7.6	7.1	7.4
19	7.9	7.4	7.8	7.3	7.1	7.2	7.8	7.1	7.5	7.7	7.0	7.3
20	8.1	7.4	7.8	7.4	7.1	7.3	7.8	7.1	7.5	7.4	7.0	7.1
21	8.1	7.4	7.7	7.5	7.2	7.4	8.0	7.2	7.6	7.1	7.0	7.0
22	8.0	7.4	7.8	7.5	7.2	7.4	8.4	7.2	7.8	7.8	7.0	7.4
23	8.0	7.7	7.8	7.7	7.3	7.5	8.0	7.3	7.6	7.1	7.0	7.0
24	8.0	7.6	7.8	7.9	7.3	7.6	8.2	7.2	7.7	7.3	7.0	7.1
25	8.1	7.5	7.8	8.0	7.2	7.6	8.1	7.3	7.7	7.3	7.0	7.1
26	8.1	7.5	7.8	7.6	7.2	7.4	7.5	7.3	7.4	7.6	7.1	7.4
27	8.2	7.6	7.9	8.0	7.4	7.6	7.4	7.3	7.4	7.4	7.1	7.3
28	8.1	7.6	7.9	8.0	7.3	7.6	7.7	7.2	7.4	7.8	7.1	7.3
29	---	---	---	8.2	7.3	7.7	8.0	7.3	7.6	8.8	7.2	---
30	---	---	---	7.5	7.2	7.4	8.1	7.3	7.6	---	---	---
31	---	---	---	8.3	7.2	7.6	---	---	---	---	---	---
MONTH	8.3	7.0	---	8.5	7.1	7.5	9.2	7.0	7.5	9.0	6.9	7.4

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.5	---	---	---	---	---	---	---	8.3	7.8	8.1
2	8.3	7.5	7.9	---	---	---	---	---	---	8.1	7.7	7.9
3	8.2	7.8	8.1	---	---	---	---	---	---	8.0	7.8	---
4	8.6	7.6	8.0	---	---	---	---	---	---	7.9	7.7	---
5	8.7	7.7	8.2	---	---	---	---	---	---	7.7	7.6	---
6	8.6	7.7	8.1	---	---	---	---	---	---	---	---	---
7	8.3	7.3	7.9	---	---	---	7.5	6.9	---	---	---	---
8	7.8	6.9	7.4	---	---	---	7.7	6.8	7.2	---	---	---
9	7.7	6.8	7.3	---	---	---	7.8	6.9	7.3	---	---	---
10	7.7	6.9	7.4	---	---	---	7.7	6.8	7.2	---	---	---
11	7.9	7.0	7.5	---	---	---	7.5	6.8	7.0	---	---	---
12	8.0	7.1	7.6	---	---	---	7.5	6.8	7.1	---	---	---
13	7.7	7.1	7.4	---	---	---	7.7	6.8	7.2	---	---	---
14	7.9	7.1	7.5	---	---	---	7.8	6.8	7.3	---	---	---
15	8.1	7.2	7.6	---	---	---	7.7	6.9	7.2	---	---	---
16	7.7	7.2	7.5	---	---	---	7.9	6.9	7.4	---	---	---
17	8.0	7.3	7.6	---	---	---	7.7	7.2	7.4	---	---	---
18	7.5	7.2	7.3	---	---	---	7.6	7.2	7.4	---	---	---
19	8.1	7.2	7.5	---	---	---	8.0	7.2	7.5	---	---	---
20	8.2	7.2	7.6	---	---	---	7.7	7.3	7.5	8.5	8.0	---
21	7.9	7.2	7.6	---	---	---	8.3	7.4	7.8	---	---	---
22	7.6	7.1	7.3	---	---	---	8.6	7.4	8.0	---	---	---
23	8.3	7.1	7.5	---	---	---	8.7	7.4	8.1	---	---	---
24	---	---	---	---	---	---	7.2	7.2	---	---	---	---
25	---	---	---	7.5	7.0	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	8.2	7.3	---	---	---	---	---	---	---	---	---	---
28	8.1	7.2	7.6	---	---	---	---	---	---	---	---	---
29	7.6	7.0	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	7.9	7.7	---	---	---	---
31	---	---	---	---	---	---	8.2	7.8	8.0	---	---	---
MONTH	8.7	6.8	---	---	---	---	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	4.0	3.5	4.0	6.0	5.0	5.5
2	---	---	---	---	---	---	4.5	3.5	4.0	5.0	4.5	4.5
3	---	---	---	---	---	---	4.5	4.0	4.0	4.5	4.0	4.5
4	---	---	---	---	---	---	5.0	4.5	4.5	4.0	4.0	4.0
5	---	---	---	---	---	---	4.5	4.5	4.5	4.5	4.0	4.0
6	---	---	---	---	---	---	5.5	4.5	5.0	4.0	3.5	4.0
7	---	---	---	---	---	---	5.5	4.0	5.0	3.0	3.0	---
8	---	---	---	---	---	---	4.0	3.5	3.5	---	---	---
9	---	---	---	---	---	---	4.0	3.5	3.5	---	---	---
10	---	---	---	---	---	---	4.5	4.0	4.5	---	---	---
11	---	---	---	---	---	---	5.0	4.5	4.5	1.0	0.5	---
12	---	---	---	---	---	---	4.5	4.0	4.5	1.0	0.0	0.5
13	---	---	---	---	---	---	4.0	4.0	4.0	1.0	0.0	0.5
14	---	---	---	---	---	---	4.0	4.0	4.0	1.0	0.0	0.5
15	---	---	---	---	---	---	4.0	3.5	3.5	1.5	1.0	1.0
16	---	---	---	---	---	---	3.5	2.0	3.0	2.0	1.0	1.5
17	---	---	---	---	---	---	2.0	1.0	1.5	2.0	1.0	1.5
18	---	---	---	---	---	---	1.5	1.0	1.0	2.0	1.0	1.5
19	---	---	---	---	---	---	2.0	1.5	1.5	3.0	1.0	1.5
20	---	---	---	---	---	---	3.0	2.0	2.5	3.0	1.5	2.0
21	---	---	---	---	---	---	3.0	3.0	3.0	1.0	0.5	1.0
22	---	---	---	---	---	---	3.5	3.0	3.5	1.5	1.0	---
23	---	---	---	---	---	---	4.0	3.5	4.0	---	---	---
24	---	---	---	---	---	---	3.5	3.5	3.5	---	---	---
25	---	---	---	---	---	---	4.5	3.5	4.0	---	---	---
26	---	---	---	---	---	---	5.0	4.5	4.5	2.0	2.0	---
27	---	---	---	---	---	---	5.0	4.5	4.5	3.0	2.0	2.5
28	---	---	---	---	---	---	4.5	4.5	4.5	3.0	3.0	3.0
29	---	---	---	---	---	---	4.5	4.0	4.0	3.0	1.0	2.0
30	---	---	---	4.5	4.0	---	4.0	3.5	3.5	1.0	0.0	0.5
31	---	---	---	---	---	---	5.0	4.0	4.0	1.0	0.0	0.0
MONTH	---	---	---	---	---	---	5.5	1.0	3.5	6.0	0.0	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	4.5	2.0	---	10.0	10.0	10.0	13.5	11.5	12.5
2	2.0	0.5	---	5.5	3.5	4.5	10.0	9.5	9.5	14.5	13.0	14.0
3	---	---	---	5.5	4.5	5.0	9.0	8.5	8.5	15.0	14.5	14.5
4	---	---	---	6.5	5.5	6.0	8.5	8.0	8.0	15.0	14.0	14.5
5	---	---	---	7.0	6.0	6.5	8.0	6.5	7.0	14.0	13.0	13.5
6	---	---	---	6.5	6.0	6.0	6.5	6.0	6.5	13.5	12.0	13.0
7	3.0	3.0	---	5.5	5.5	5.5	7.0	6.5	6.5	15.5	13.0	14.0
8	3.0	3.0	3.0	6.0	5.0	5.5	7.0	7.0	7.0	15.0	14.5	14.5
9	3.0	1.5	2.0	6.5	5.5	6.0	8.0	6.5	7.5	15.0	14.5	14.5
10	1.5	1.0	1.0	7.0	6.0	6.5	8.5	8.0	8.0	16.0	14.0	15.0
11	1.0	0.5	0.5	7.0	6.5	6.5	8.0	6.5	7.0	16.0	15.5	15.5
12	1.0	0.0	0.5	7.0	6.5	6.5	7.0	6.0	6.5	15.5	14.5	15.0
13	1.0	0.5	0.5	8.5	7.0	7.5	6.5	5.5	6.0	14.5	13.5	14.0
14	1.5	0.5	1.0	8.5	8.0	8.5	7.0	6.0	6.5	13.5	13.0	13.0
15	1.5	1.0	1.5	8.0	7.0	8.0	9.0	7.0	8.0	13.0	12.0	12.0
16	1.5	0.5	1.5	8.0	7.0	7.5	10.0	8.5	9.0	13.0	11.5	12.5
17	0.5	0.0	0.0	8.5	7.0	8.0	11.0	10.0	10.5	13.5	12.0	13.0
18	1.0	0.0	0.5	8.0	6.5	7.0	13.0	11.0	12.0	13.0	11.5	12.0
19	1.5	0.0	0.5	6.5	5.5	6.0	14.5	12.0	13.5	11.5	11.0	11.0
20	2.0	1.0	1.5	5.5	4.5	5.0	15.5	14.5	15.0	11.5	11.0	11.0
21	2.0	1.5	2.0	5.5	4.5	5.0	15.5	14.0	14.5	11.5	11.0	11.5
22	3.5	2.0	2.5	5.5	5.0	5.0	16.0	14.5	15.5	13.0	11.0	12.0
23	3.0	2.0	2.5	5.5	4.5	5.0	17.0	15.5	16.0	13.0	13.0	13.0
24	2.0	1.5	2.0	7.0	5.0	6.0	17.0	16.0	16.5	13.0	13.0	13.0
25	3.0	1.5	2.5	7.0	6.5	6.5	16.0	15.0	15.5	13.0	12.0	13.0
26	4.0	3.0	3.5	8.5	7.0	7.5	15.0	13.5	14.0	13.5	13.0	13.0
27	3.5	2.0	3.0	9.0	8.0	8.5	13.5	12.0	13.0	13.5	13.5	13.5
28	3.5	2.0	3.0	9.5	8.5	9.0	12.0	11.0	11.5	14.5	13.5	14.0
29	---	---	---	9.5	8.5	9.0	11.5	10.5	11.0	15.0	14.0	---
30	---	---	---	9.0	9.0	9.0	11.5	10.5	11.0	---	---	---
31	---	---	---	10.0	9.0	9.5	---	---	---	---	---	---
MONTH	4.0	0.0	1.5	10.0	2.0	7.0	17.0	5.5	10.5	16.0	11.0	13.5

01446700 DELAWARE RIVER AT EASTON, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	---	---	---	---	28.5	25.5	---	28.5	28.0	28.0
2	18.5	17.0	18.0	---	---	---	---	---	---	30.5	27.0	28.5
3	19.0	18.0	18.5	---	---	---	---	---	---	30.5	28.5	29.5
4	19.5	18.0	19.0	---	---	---	---	---	---	30.5	27.0	28.5
5	20.5	19.0	19.5	---	---	---	---	---	---	30.0	28.5	---
6	21.5	20.5	21.0	---	---	---	---	---	---	---	---	---
7	22.0	20.5	21.0	---	---	---	26.0	25.0	---	---	---	---
8	21.5	21.0	21.0	---	---	---	26.5	25.0	25.5	---	---	---
9	21.5	21.0	21.0	---	---	---	28.0	25.5	26.5	---	---	---
10	23.0	21.0	22.0	---	---	---	28.0	26.0	27.0	---	---	---
11	24.0	22.0	23.0	---	---	---	28.0	26.0	26.5	---	---	---
12	25.0	24.0	24.5	---	---	---	27.0	25.5	26.0	---	---	---
13	25.0	24.0	24.5	---	---	---	27.0	25.5	26.0	---	---	---
14	24.0	23.0	23.5	---	---	---	27.0	25.5	26.0	21.5	20.5	---
15	23.5	21.5	22.5	---	---	---	26.0	25.0	25.5	21.0	20.0	20.5
16	23.0	22.0	22.0	---	---	---	25.5	24.5	25.0	20.0	19.0	19.5
17	22.0	21.0	21.5	---	---	---	24.5	23.5	24.0	20.0	18.5	19.5
18	21.5	20.5	21.0	---	---	---	24.0	23.0	23.5	20.5	19.5	19.5
19	21.5	20.5	21.0	---	---	---	24.5	23.0	23.5	20.0	18.5	19.5
20	23.5	21.0	22.0	---	---	---	24.0	23.0	23.5	19.5	18.0	---
21	23.5	23.0	23.0	---	---	---	24.5	23.0	23.5	---	---	---
22	23.5	23.0	23.0	---	---	---	24.5	23.0	23.5	---	---	---
23	23.5	22.0	22.5	---	---	---	24.0	22.0	23.5	---	---	---
24	---	---	---	---	---	---	24.5	23.5	---	---	---	---
25	---	---	---	28.5	26.0	---	---	---	---	---	---	---
26	---	---	---	28.0	26.0	27.0	---	---	---	---	---	---
27	24.5	23.5	---	30.5	27.0	28.5	---	---	---	---	---	---
28	24.5	23.5	24.0	30.5	27.0	29.0	---	---	---	---	---	---
29	24.0	23.0	---	30.0	28.0	29.0	---	---	---	---	---	---
30	---	---	---	29.5	25.5	27.5	29.0	27.0	---	---	---	---
31	---	---	---	29.5	26.0	27.5	29.5	28.0	28.5	---	---	---
MONTH	25.0	16.5	---	---	---	---	---	---	---	---	---	---

01449360 POHOPOCO CREEK AT KRESGEVILLE, PA.

LOCATION.--Lat 40°53'51", long 75°30'10", Monroe County, temperature recorder at gaging station on right bank 20 ft (6 m) downstream from bridge on U.S. Route 209 at Kresgeville, 0.2 mile (0.3 km) downstream from Middle Creek, and 13 miles (21 km) northeast of Lehighton.

DRAINAGE AREA.--49.9 mi^2 (129 km^2).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1970, May 1971 to September 1973.

EXTREMES.

Period of record:
Water temperatures (1968-73): Maximum, 31.5°C July 25, 1970; minimum, freezing point Feb. 20-21, 23, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	11.0	11.0	7.0	6.5	7.0	3.0	0.5	2.0	8.5	6.5	7.5
2	12.0	9.0	10.5	9.0	7.0	8.5	3.5	2.5	3.0	6.5	5.0	5.5
3	12.5	9.5	11.0	11.0	9.0	9.5	4.0	2.0	3.0	5.0	4.0	4.5
4	13.0	11.0	12.0	8.5	7.5	8.0	3.5	2.5	3.0	5.0	4.0	5.0
5	14.0	11.5	12.5	9.0	7.5	8.5	3.5	2.5	3.0	7.5	5.0	5.5
6	15.0	13.5	14.0	8.0	6.5	7.0	3.5	3.0	3.5	8.0	2.0	4.0
7	14.5	13.0	14.0	8.0	5.0	6.5	3.5	3.5	3.5	2.0	1.5	1.5
8	13.0	11.0	12.0	9.0	8.0	8.5	---	---	---	1.5	1.0	1.5
9	12.0	10.0	11.0	8.0	7.5	8.0	---	---	---	1.5	0.5	1.0
10	9.5	7.0	8.5	8.0	6.5	7.5	---	---	---	2.0	1.0	1.5
11	9.0	6.5	8.0	7.0	6.5	7.0	---	---	---	2.0	0.5	1.5
12	10.0	9.0	9.5	7.5	6.5	7.0	---	---	---	2.0	1.0	1.5
13	10.0	9.0	9.5	7.0	6.5	7.0	6.0	5.0	5.5	2.0	0.5	1.5
14	10.0	7.5	8.5	7.0	6.0	6.5	5.0	4.5	5.0	2.5	0.5	2.0
15	10.0	8.0	8.5	7.0	5.5	6.0	4.5	3.5	4.0	4.0	2.5	3.5
16	8.0	6.5	7.0	6.0	5.5	5.5	4.0	2.0	3.0	5.0	3.5	4.0
17	10.5	6.5	8.5	5.5	4.5	5.0	2.0	1.0	1.5	6.5	3.5	5.0
18	9.0	7.0	7.5	5.0	4.0	4.5	3.0	1.0	2.0	---	---	---
19	7.0	5.0	5.5	4.5	3.0	4.0	4.5	3.0	4.0	---	---	---
20	5.5	4.0	5.0	5.0	4.0	4.5	5.0	4.5	5.0	---	---	---
21	6.0	3.5	4.5	4.0	3.0	3.0	5.0	4.0	4.5	---	---	---
22	8.0	5.5	6.5	2.0	1.0	1.5	6.0	4.0	5.0	---	---	---
23	10.0	7.5	7.5	1.0	0.0	0.5	6.5	5.0	6.0	---	---	---
24	11.5	9.0	10.5	1.5	0.0	1.0	5.5	5.0	5.0	---	---	---
25	10.5	9.0	10.0	2.0	0.0	0.5	6.5	5.5	6.0	---	---	---
26	9.0	6.5	7.5	4.0	2.0	3.5	6.5	5.5	6.0	---	---	---
27	7.5	5.5	6.5	3.5	3.0	3.0	5.5	5.0	5.5	---	---	---
28	11.0	7.5	9.0	4.0	2.5	3.0	5.5	4.5	5.0	---	---	---
29	11.5	7.5	11.0	3.5	2.5	3.0	4.0	3.5	4.0	---	---	---
30	10.5	7.5	9.5	2.0	0.0	1.0	6.0	4.0	4.5	---	---	---
31	7.5	6.0	7.0	---	---	---	8.0	5.0	6.0	---	---	---
MONTH	15.0	3.5	9.0	11.0	0.0	5.0	8.0	0.5	4.0	---	---	---

01449360 POHOPOCO CREEK AT KRESGEVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	14.0	10.5	12.0
2	---	---	---	---	---	---	---	---	---	14.0	12.0	13.0
3	---	---	---	---	---	---	---	---	---	13.0	10.0	11.0
4	---	---	---	---	---	---	---	---	---	10.5	8.0	9.0
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	8.5	4.5	6.5	---	---	---
14	---	---	---	---	---	---	10.0	5.0	7.5	---	---	---
15	---	---	---	---	---	---	11.0	5.5	8.5	---	---	---
16	---	---	---	---	---	---	12.5	6.5	10.0	---	---	---
17	---	---	---	---	---	---	12.5	9.0	10.5	---	---	---
18	---	---	---	---	---	---	13.0	10.0	11.5	---	---	---
19	---	---	---	---	---	---	14.0	10.5	12.5	---	---	---
20	---	---	---	---	---	---	15.0	10.0	12.5	---	---	---
21	---	---	---	---	---	---	14.0	9.0	12.0	---	---	---
22	---	---	---	---	---	---	16.0	10.5	14.0	---	---	---
23	---	---	---	---	---	---	14.0	11.0	13.0	---	---	---
24	---	---	---	---	---	---	14.0	10.0	12.0	12.0	11.0	11.5
25	---	---	---	---	---	---	11.0	9.5	10.5	12.5	11.0	11.5
26	---	---	---	---	---	---	10.0	9.0	9.5	12.0	11.0	11.5
27	---	---	---	---	---	---	9.5	9.0	9.0	---	---	---
28	---	---	---	---	---	---	9.5	8.0	9.0	---	---	---
29	---	---	---	---	---	---	11.0	7.0	9.0	---	---	---
30	---	---	---	---	---	---	12.5	8.5	10.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	20.0	17.5	19.0
2	---	---	---	---	---	---	---	---	---	21.0	18.0	19.5
3	---	---	---	---	---	---	19.0	18.0	18.0	21.0	19.0	20.0
4	---	---	---	---	---	---	18.5	16.5	17.5	21.0	19.0	20.0
5	18.5	14.5	16.5	---	---	---	18.5	16.0	17.5	21.0	19.0	20.0
6	18.5	16.0	17.0	---	---	---	18.5	16.0	17.0	20.5	19.0	19.5
7	18.0	16.0	17.0	---	---	---	19.0	16.0	17.5	18.5	16.5	17.5
8	18.5	14.5	16.5	---	---	---	19.0	17.0	18.0	17.5	15.0	16.5
9	19.5	15.0	17.0	---	---	---	19.5	17.5	18.5	16.5	15.0	16.0
10	18.5	15.5	17.0	---	---	---	20.0	17.5	19.0	16.0	13.0	14.5
11	19.5	15.5	17.5	---	---	---	19.0	17.5	18.5	16.0	13.0	14.5
12	20.0	16.0	17.5	---	---	---	19.0	17.0	18.0	16.5	14.0	15.5
13	18.5	16.0	17.0	---	---	---	18.5	17.0	18.0	15.5	12.5	14.0
14	17.5	14.5	16.5	---	---	---	18.0	16.5	17.5	15.5	14.5	14.5
15	17.5	13.5	16.0	---	---	---	18.5	17.0	17.5	16.0	14.5	15.5
16	16.0	14.5	15.0	---	---	---	18.0	17.5	17.5	16.0	13.5	15.0
17	16.5	14.5	15.5	---	---	---	18.0	17.0	17.5	15.5	13.5	14.5
18	15.5	13.5	14.0	---	---	---	18.0	17.0	17.5	16.0	14.0	15.0
19	15.5	13.5	14.5	---	---	---	18.0	16.5	17.5	15.0	13.0	14.0
20	17.0	14.5	15.5	---	---	---	17.5	16.5	17.0	14.0	11.5	12.5
21	18.0	15.5	16.0	---	---	---	17.5	16.0	16.5	13.0	11.0	12.0
22	17.0	15.5	16.0	---	---	---	17.5	16.0	16.5	12.5	11.0	12.0
23	17.0	14.5	16.0	---	---	---	17.0	14.5	16.0	16.0	13.0	14.5
24	19.5	15.0	16.5	---	---	---	17.0	15.5	16.5	16.0	13.5	15.0
25	17.0	15.5	16.0	---	---	---	17.5	15.5	16.5	15.0	13.5	14.5
26	---	---	---	---	---	---	19.0	16.0	17.5	14.5	12.5	13.5
27	---	---	---	---	---	---	18.5	17.5	18.0	16.0	13.0	14.5
28	---	---	---	---	---	---	21.5	17.5	19.5	16.5	14.5	15.5
29	---	---	---	---	---	---	22.0	19.5	21.0	15.5	14.5	15.0
30	---	---	---	---	---	---	22.0	19.5	20.5	14.5	13.0	14.0
31	---	---	---	---	---	---	21.5	19.0	20.5	---	---	---
MONTH	---	---	---	---	---	---	22.0	14.5	18.0	21.0	11.0	15.5

01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA.

LOCATION.--Lat 40°50'44", long 75°38'46", Carbon County, temperature recorder at gaging station on right bank 0.1 mile (0.2 km) upstream from Sawmill Run, 0.4 mile (0.7 km) downstream from Beltzville Dam, 1.3 miles (2.1 km) upstream from Bull Run, and 2.3 miles (3.7 km) northeast of Parryville.

DRAINAGE AREA.--96.4 mi^2 (250 km^2).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1973.

EXTREMES.

Period of record:
Water temperatures (1968-73): Maximum, 26.5°C on several days during July, August 1970; minimum, freezing point Dec. 9, 1969.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.0	13.0	13.0	7.5	7.0	7.5	4.5	4.5	4.5
2	---	---	---	13.0	13.0	13.0	7.5	7.5	7.5	4.5	4.5	4.5
3	---	---	---	13.0	13.0	13.0	7.5	7.5	7.5	4.5	4.5	4.5
4	---	---	---	13.0	13.0	13.0	7.5	6.5	7.0	4.5	4.5	4.5
5	---	---	---	13.0	13.0	13.0	7.0	6.0	6.5	4.5	4.5	4.5
6	---	---	---	13.0	13.0	13.0	7.0	6.5	7.0	4.5	4.5	4.5
7	---	---	---	13.0	13.0	13.0	6.5	5.0	6.0	4.5	4.5	4.5
8	---	---	---	13.0	13.0	13.0	6.5	5.5	6.0	4.5	2.5	3.5
9	---	---	---	13.0	13.0	13.0	6.5	6.5	6.5	3.5	2.5	3.0
10	---	---	---	13.0	13.0	13.0	6.5	6.5	6.5	4.0	3.0	3.5
11	---	---	---	13.0	13.0	13.0	6.5	5.0	5.5	3.5	3.0	3.5
12	---	---	---	13.0	13.0	13.0	6.0	5.0	6.0	3.5	3.0	3.5
13	---	---	---	13.0	13.0	13.0	6.0	6.0	6.0	3.5	3.0	3.0
14	---	---	---	13.0	13.0	13.0	6.0	5.5	5.5	3.5	3.0	3.0
15	---	---	---	12.5	12.5	12.5	5.5	5.5	5.5	3.0	3.0	3.0
16	---	---	---	12.5	12.5	12.5	5.5	4.5	5.5	3.0	3.0	3.0
17	---	---	---	12.5	12.5	12.5	4.5	4.5	4.5	3.0	3.0	3.0
18	---	---	---	12.5	12.5	12.5	5.0	4.5	4.5	3.5	3.0	3.0
19	---	---	---	12.5	12.5	12.5	4.5	4.5	4.5	3.5	3.5	3.5
20	---	---	---	12.5	12.5	12.5	4.5	4.5	4.5	3.5	3.0	3.5
21	---	---	---	12.5	12.5	12.5	4.5	4.5	4.5	3.5	3.0	3.0
22	---	---	---	12.5	12.5	12.5	4.5	4.5	4.5	3.5	3.0	3.0
23	---	---	---	12.5	12.5	12.5	4.5	4.5	4.5	3.0	3.0	3.0
24	---	---	---	8.0	8.0	8.0	4.5	4.5	4.5	3.5	2.5	3.0
25	---	---	---	8.0	8.0	8.0	4.5	4.5	4.5	3.5	2.5	3.5
26	---	---	---	8.0	8.0	8.0	4.5	4.5	4.5	3.5	3.5	3.5
27	---	---	---	8.0	8.0	8.0	4.5	4.5	4.5	3.5	3.0	3.5
28	---	---	---	7.0	7.0	7.0	4.5	4.5	4.5	3.5	3.5	3.5
29	---	---	---	7.0	7.0	7.0	4.5	4.5	4.5	3.5	3.5	3.5
30	---	---	---	7.0	7.0	7.0	4.5	4.5	4.5	3.0	2.5	3.0
31	13.0	13.0	13.0	---	---	---	4.5	4.5	4.5	3.0	2.0	3.0
MONTH	---	---	---	13.0	7.0	11.5	7.5	4.5	5.5	4.5	2.0	3.5

01449800 POHOPOCO CREEK BELOW BELTZVILLE DAM NEAR PARRYVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.5	---	---	---	7.0	6.5	7.0	16.0	9.0	10.0
2	3.5	2.5	3.0	---	---	---	7.0	6.0	6.5	12.5	9.0	9.5
3	3.5	4.0	4.0	---	---	---	6.5	6.0	6.0	11.0	9.0	9.5
4	3.5	4.0	4.0	---	---	---	7.0	6.0	6.5	10.5	8.0	9.0
5	4.0	3.0	3.5	---	---	---	6.5	6.5	6.5	11.5	8.5	9.0
6	2.5	3.0	3.0	---	---	---	6.5	6.5	6.5	10.5	9.0	9.5
7	2.5	3.0	3.0	---	---	---	7.0	6.5	6.5	11.5	7.5	9.0
8	2.5	3.0	3.0	---	---	---	7.0	6.5	7.0	10.5	7.5	9.0
9	3.0	3.0	3.0	---	---	---	7.0	7.0	7.0	12.5	9.5	10.5
10	4.0	2.5	3.0	---	---	---	7.0	7.0	7.0	10.0	9.5	10.0
11	3.0	2.5	3.0	---	---	---	7.0	7.0	7.0	10.5	9.0	10.0
12	3.0	3.0	3.0	---	---	---	7.0	7.0	7.0	10.5	10.0	10.5
13	3.0	3.0	3.0	5.0	4.5	4.5	7.0	7.0	7.0	10.5	10.0	10.5
14	3.0	3.0	3.0	5.0	4.5	4.5	7.0	7.0	7.0	10.5	10.5	10.5
15	3.0	3.0	3.0	5.0	4.5	5.0	7.5	7.0	7.0	11.0	10.5	11.0
16	3.0	3.0	3.0	5.0	4.5	5.0	7.0	7.0	7.0	11.0	10.0	10.5
17	3.0	3.0	3.0	5.5	5.0	5.0	7.0	7.0	7.0	11.0	10.5	11.0
18	3.0	3.0	3.0	5.5	5.0	5.0	7.5	7.0	7.5	11.0	9.5	10.5
19	3.0	3.0	3.0	5.0	5.0	5.0	8.0	7.5	8.0	11.0	10.5	11.0
20	3.0	3.0	3.0	5.0	5.0	5.0	9.0	7.5	8.5	11.0	11.0	11.0
21	3.0	3.0	3.0	5.0	4.5	5.0	9.0	8.0	8.5	11.0	11.0	11.0
22	---	---	---	5.0	5.0	5.0	9.0	7.5	8.5	11.5	11.0	11.0
23	---	---	---	5.5	4.5	5.0	9.0	8.0	8.5	11.5	11.0	11.5
24	---	---	---	5.5	5.0	5.0	9.5	8.0	9.0	11.5	11.5	11.5
25	---	---	---	5.5	5.0	5.0	9.5	9.0	9.0	11.5	11.5	11.5
26	---	---	---	5.5	5.0	5.5	10.5	9.0	9.5	12.0	11.5	11.5
27	---	---	---	6.0	5.5	5.5	11.0	9.0	9.5	11.5	11.5	11.5
28	---	---	---	6.0	5.5	6.0	9.5	8.5	9.0	12.0	11.5	11.5
29	---	---	---	6.5	5.5	6.0	9.0	8.5	9.0	12.0	11.0	11.5
30	---	---	---	6.5	6.0	6.0	12.0	8.5	9.5	12.0	11.5	12.0
31	---	---	---	7.0	6.0	6.5	---	---	---	---	11.5	11.5
MONTH	---	---	---	---	---	---	12.0	6.0	7.5	16.0	7.5	10.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	11.5	12.0	---	---	---	17.0	16.0	16.0	18.5	17.0	17.5
2	12.5	12.0	12.5	---	---	---	17.0	16.0	16.5	18.5	17.0	17.5
3	13.0	12.5	13.0	---	---	---	16.5	16.0	16.5	18.5	17.0	17.5
4	13.0	12.0	12.5	---	---	---	18.5	16.0	16.5	19.0	17.0	17.5
5	13.5	12.5	13.0	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
6	13.5	12.5	13.0	---	---	---	17.0	16.5	17.0	17.5	17.5	17.5
7	13.5	13.0	13.0	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
8	14.0	13.0	13.5	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
9	14.0	12.5	13.5	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
10	14.5	14.0	14.0	---	---	---	17.0	17.0	17.0	19.0	17.5	18.0
11	14.5	12.5	13.5	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
12	13.5	12.5	13.0	---	---	---	17.0	16.5	17.0	18.5	17.5	18.0
13	13.0	12.5	13.0	---	---	---	17.0	16.5	17.0	18.5	17.5	17.5
14	13.5	12.5	13.0	---	---	---	17.0	16.5	17.0	18.0	17.5	17.5
15	13.0	12.5	13.0	---	---	---	17.0	16.5	17.0	18.5	17.5	17.5
16	13.0	13.0	13.0	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
17	14.0	12.5	13.0	---	---	---	17.0	17.0	17.0	18.5	17.5	17.5
18	13.0	12.5	13.0	---	---	---	17.0	17.0	17.0	18.0	17.5	17.5
19	13.5	13.0	13.0	---	---	---	17.5	17.0	17.0	18.0	17.5	17.5
20	13.5	13.0	13.0	---	---	---	17.5	17.0	17.0	18.0	17.5	17.5
21	14.0	13.0	13.0	---	---	---	18.0	17.0	17.0	18.0	17.5	17.5
22	13.5	13.0	13.0	---	---	---	18.0	17.0	17.0	17.5	17.5	17.5
23	---	---	---	---	---	---	19.0	17.0	17.0	18.0	17.0	17.5
24	---	---	---	---	---	---	18.0	17.0	17.0	18.0	17.0	17.5
25	---	---	---	---	---	---	18.0	17.0	17.0	17.5	17.0	17.0
26	---	---	---	---	---	---	18.0	16.5	17.0	17.5	17.0	17.0
27	---	---	---	18.5	15.5	16.0	17.5	16.5	17.0	17.5	17.0	17.0
28	---	---	---	16.0	15.5	15.5	19.0	16.5	17.5	18.0	17.0	17.0
29	---	---	---	17.0	15.5	16.0	19.0	16.5	17.5	17.0	17.0	17.0
30	---	---	---	17.0	16.0	16.5	18.5	17.0	17.5	17.5	17.0	17.0
31	---	---	---	17.0	16.0	16.5	18.5	17.0	17.5	---	---	---
MONTH	---	---	---	---	---	---	19.0	16.0	17.0	19.0	17.0	17.5

01451695 JORDAN CREEK NEAR PLEASANT CORNERS, PA.

LOCATION.--Lat 40°39'55", long 75°41'19", Lehigh County, at double-span concrete bridge 1.3 mile (2.1 km) south of Pleasant Corners.

DRAINAGE AREA.--14.3 mi^2 (37.0 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.
Sediment records: August 1972 to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 356.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)
JUNE 13...	1200	16	23	3.6	3.4	.06	.06	1.2	1.2	1.3	1.3
JULY 19...	1015	16	33	2.7	2.3	.04	.02	.62	.78	.66	.80
AUG. 23...	0945	2.0	33	3.4	2.1	.03	.03	.16	.14	.19	.17
SEP. 20...	0930	7.0	40	1.6	1.4	.08	.13	.44	.44	.52	.57

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 13...	.02	.01	.01	.01	135	7.8	16.0	10.0	330	640	--
JULY 19...	.02	.01	.01	.01	--	7.9	21.0	9.2	--	--	--
AUG. 23...	.03	.01	.02	.01	150	7.9	18.0	9.6	--	--	2.5
SEP. 20...	.07	.02	.00	.00	142	7.4	15.0	10.4	--	--	5.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT. 18...	0930	1.7	45	1.3	1.3	--	--	.02	.00
NOV. 22...	0945	40	15	3.6	3.8	--	--	.01	.03
DEC. 20...	0940	36	14	4.5	4.7	--	--	.01	.07
JAN. 17...	0900	12	14	1.4	1.5	--	--	.03	.03
FEB. 14...	1000	37	20	5.4	4.7	--	--	.10	.32
MAR. 13...	1545	21	18	2.9	2.7	--	--	.10	.07
APR. 01...	2400	83	--	1.0	--	--	--	.11	--
02...	1710	75	--	3.2	--	--	--	.11	--
28...	0945	26	--	1.9	--	--	--	.18	--
MAY 23...	1010	16	--	2.5	2.5	--	--	.35	.25
JUNE 12...	0945	8.0	--	--	2.9	.00	3.0	--	.08
JULY 18...	0945	6.5	--	--	2.8	.00	2.8	--	.05
AUG. 14...	1420	4.5	--	--	2.1	.00	2.1	--	.13
SEP. 12...	1145	1.0	38	--	1.7	.00	1.6	--	.01

01451695 JORDAN CREEK NEAR PLEASANT CORNERS, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT.									
18...	.38	.56	.40	.56	--	.02	.01	.01	.01
NOV.									
22...	.28	.64	.29	.67	--	.01	.01	.01	.01
DEC.									
20...	1.1	1.5	1.1	1.6	--	.01	.01	.01	.01
JAN.									
17...	1.2	1.2	1.2	1.2	--	.01	.00	.01	.00
FEB.									
14...	.53	.52	.02	.84	--	.02	.01	.00	.00
MAR.									
13...	.23	.13	.33	.20	--	.04	.01	.01	.01
APR.									
01...	1.1	--	1.2	--	--	.19	--	.05	--
02...	1.0	--	1.1	--	--	.11	--	.03	--
28...	.82	--	.98	--	--	.05	--	.01	--
MAY									
23...	.42	.37	.77	.62	--	.04	.03	.04	.02
JUNE									
12...	.16	--	.38	--	3.2	.03	--	--	.01
JULY									
18...	.11	--	.16	--	2.9	.01	--	--	.01
AUG.									
14...	.08	--	.21	--	2.3	.02	--	--	.02
SEP.									
12...	.22	--	.23	--	1.9	.02	--	--	.02

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
18...	160	6.8	6.0	12.2	--	--	--	2.5
NOV.								
22...	160	6.8	3.5	13.4	--	--	--	6.0
DEC.								
20...	155	6.9	4.0	13.4	--	--	--	3.0
JAN.								
17...	140	6.9	1.0	16.8	--	--	--	2.5
FEB.								
14...	150	7.3	.0	15.6	840	130	110	1.5
MAR.								
13...	150	7.6	12.0	13.0	3000	160	88	2.5
APR.								
01...	120	6.6	9.5	--	14000	1500	5000	12
02...	140	--	9.5	--	--	--	--	9.0
28...	140	7.4	10.0	--	2900	650	E280	4.5
MAY								
23...	140	7.0	13.0	11.6	3400	760	180	3.0
JUNE								
12...	150	7.4	21.0	10.2	4900	2800	220	--
JULY								
18...	121	7.4	18.0	11.2	5400	1300	820	1.0
AUG.								
14...	168	7.6	23.0	11.4	1600	320	500	3.0
SEP.								
12...	120	7.2	18.0	11.2	580	230	250	.0

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA.

LOCATION.--Lat 40°39'34", long 75°41'33", Lehigh County, at wooden bridge on dirt road 1.7 mile (2.7 km) south of Pleasant Corners, and 0.2 mile (0.3 km) above mouth.

DRAINAGE AREA.--8.43 mi^2 (21.8 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.
Sediment records: August 1972 to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 356.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)
JUNE 13...	1045	6.5	--	.68	.00	.07	.02	1.3	1.3	1.3	1.3
JULY 19...	0900	13	42	3.6	2.7	.07	.01	.78	.84	.85	.85
AUG. 23...	1030	4.0	46	2.9	2.7	.07	.07	.21	.45	.28	.52
SEP. 20...	0845	4.0	52	1.6	1.5	.05	.24	.41	.56	.46	.80

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 13...	.08	.03	.05	.01	165	7.5	17.0	10.0	770	840	--
JULY 19...	.03	.01	.01	.00	--	7.4	21.0	9.0	--	--	--
AUG. 23...	.02	.02	.02	.02	195	7.7	19.0	9.3	--	--	3.5
SEP. 20...	.04	.03	.01	.00	200	7.5	15.5	8.6	--	--	5.5

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT.									
18...	0830	5.0	56	2.7	1.9	--	--	.01	.02
NOV.									
22...	0915	46	30	4.5	4.1	--	--	.01	.02
DEC.									
20...	0930	34	24	5.6	4.5	--	--	.04	.04
JAN.									
17...	0830	12	20	1.8	1.6	--	--	.03	.12
FEB.									
14...	0930	44	20	5.0	4.7	--	--	.30	.17
MAR.									
13...	1530	18	18	3.8	3.6	--	--	.08	.08
APR.									
01...	2345	97	--	1.9	--	--	--	.16	--
02...	1700	122	--	3.6	--	--	--	.13	--
28...	0935	12	--	2.9	--	--	--	.08	--
MAY									
23...	1000	9.0	--	2.9	2.7	--	--	.15	.10
JUNE									
12...	0900	7.0	--	--	2.9	.01	3.0	--	.10
JULY									
18...	0930	4.0	--	--	2.7	.00	2.7	--	.17
AUG.									
14...	1400	1.5	--	--	2.0	.00	2.0	--	.10
SEP.									
12...	1115	1.0	60	--	1.7	.00	1.6	--	.02

DATE	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTA KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT.									
18...	.23	.60	.24	.62	--	.01	.01	.01	.00
NOV.									
22...	.36	.32	.37	.34	--	.03	.02	.02	.01
DEC.									
20...	.77	.86	.81	.90	--	.02	.00	.01	.00
JAN.									
17...	1.3	1.5	1.3	1.6	--	.02	.00	.01	.00
FEB.									
14...	1.4	1.5	1.7	1.7	--	.02	.02	.01	.00
MAR.									
13...	.27	.14	.35	.22	--	.07	.01	.01	.01
APR.									
01...	1.5	--	1.7	--	--	.28	--	.07	--
02...	.94	--	1.1	--	--	.17	--	.04	--
28...	.69	--	.77	--	--	.03	--	.01	--
MAY									
23...	.28	.20	.43	.30	--	.03	.02	.03	.02
JUNE									
12...	.36	--	.40	--	3.5	.02	--	--	.01
JULY									
18...	.06	--	.23	--	2.9	.02	--	--	.02
AUG.									
14...	.27	--	.37	--	2.4	.06	--	--	.05
SEP.									
12...	.22	--	.24	--	1.9	.03	--	--	.02

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
18...	190	7.2	6.0	10.4	--	--	--	3.0
NOV.								
22...	167	7.3	3.0	13.2	--	--	--	6.5
DEC.								
20...	180	7.7	4.5	13.0	--	--	--	4.0
JAN.								
17...	180	7.1	.5	13.6	--	--	--	2.5
FEB.								
14...	175	7.2	.0	15.4	1200	110	39	4.0
MAR.								
13...	170	7.3	12.5	11.8	4000	87	110	1.0
APR.								
01...	140	7.2	10.5	--	4900	1100	7300	9.0
02...	140	7.2	10.5	--	--	--	--	7.5
28...	200	7.9	10.0	--	2400	510	E200	3.5
MAY								
23...	179	7.1	13.5	11.4	3500	580	160	3.0
JUNE								
12...	180	7.2	22.0	9.4	7000	5200	130	--
JULY								
18...	180	7.7	19.5	10.6	15000	1100	480	1.0
AUG.								
14...	190	7.3	24.0	11.2	7900	620	1100	1.0
SEP.								
12...	160	7.4	17.0	10.8	1800	E31	400	.0

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT.											
18...	0830	4000	10000	300	1.0	200	2260	530	46000	15	.2

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT.											
18...	.0	E10	28	2.5	1.7	.7	.0	.0	.0	.0	M0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
18...	E0	3	0	6	7	10	10	<.5	7	2	50

01451738 LYON CREEK AT LYON VALLEY, PA.

LOCATION.--Lat 40°37'30", long 75°40'27", Lehigh County, at single span concrete bridge on country road 0.4 mile (0.6 km) southwest of Lyon Valley and 2.3 miles (3.7 km) from mouth.

DRAINAGE AREA.--7.52 mi^2 (19.5 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.
Sediment records: August 1972 to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 357.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUNE												
13...	1700	--	30	4.3	4.1	.48	.06	1.3	1.3	1.5	1.4	.07
JULY												
19...	1330	13	33	4.7	2.9	.01	.04	.73	.88	.74	.92	.04
AUG.												
23...	1345	7.6	42	3.4	3.2	.07	.04	.61	.40	.68	.44	.09
SEP.												
20...	1330	4.0	51	1.8	1.6	.07	.08	.49	.58	.56	.68	.04

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE											
13...	.01	.03	.00	190	7.5	18.0	10.4	2800	800	1500	--
JULY											
19...	.02	.02	.01	--	7.6	25.0	9.4	--	--	--	--
AUG.											
23...	.04	.04	.02	295	7.7	23.0	8.8	--	--	--	5.5
SEP.											
20...	.04	.02	.01	225	7.4	18.0	10.0	--	--	--	5.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT.									
18...	1315	4.0	--	2.3	2.3	--	--	.00	.01
NOV.									
22...	1230	42	21	6.3	6.3	--	--	.04	.03
DEC.									
20...	1115	31	16	4.1	5.4	--	--	.47	.05
JAN.									
17...	1300	1.0	28	5.4	4.7	--	--	.02	.06
FEB.									
14...	1400	53	18	5.2	4.7	--	--	.02	.14
MAR.									
14...	0930	12	16	5.6	4.7	--	--	.05	.01
APR.									
02...	0100	82	--	4.1	--	--	--	.17	--
02...	1800	137	--	4.3	--	--	--	.12	--
28...	1130	10	--	3.8	--	--	--	.02	--
MAY									
23...	1300	8.0	--	3.4	3.4	--	--	.28	.01
JUNE									
12...	1130	7.0	--	--	3.6	.00	3.6	--	.10
JULY									
18...	1145	4.5	--	--	3.6	.00	3.6	--	.15
AUG.									
14...	1645	2.5	--	--	2.0	.00	2.0	--	.08
SEP.									
12...	1100	1.0	58	--	1.6	.05	1.6	--	.05

01451738 LYON CREEK AT LYON VALLEY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.									
18...	.35	.49	.35	.50	--	.02	.01	.01	.01
NOV.									
22...	.52	.42	.56	.45	--	.02	.01	.02	.01
DEC.									
20...	1.6	1.6	2.1	2.0	--	1.1	1.0	1.1	1.0
JAN.									
17...	1.6	1.5	1.6	1.5	--	.01	.00	.00	.00
FEB.									
14...	.46	.58	.48	.72	--	.02	.01	.01	.01
MAR.									
14...	.25	.14	.30	.15	--	.02	.00	.01	.00
APR.									
02...	1.5	--	1.7	--	--	.49	--	.12	--
02...	1.6	--	1.7	--	--	.35	--	.08	--
28...	.57	--	.59	--	--	.02	--	.00	--
MAY									
23...	.30	.31	.58	.32	--	.02	.02	.02	.02
JUNE									
12...	.18	--	.32	--	3.9	.03	--	--	.01
JULY									
18...	.63	--	.78	--	4.4	.05	--	--	.03
AUG.									
14...	.47	--	.55	--	2.6	.06	--	--	.05
SEP.									
12...	.34	--	.39	--	2.1	.06	--	--	.04

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
18...	215	6.9	7.0	12.4	--	--	--	7.5
NOV.								
22...	220	6.6	5.5	12.2	--	--	--	5.0
DEC.								
20...	210	7.6	5.5	12.8	--	--	--	3.5
JAN.								
17...	200	7.0	4.0	14.1	--	--	--	--
FEB.								
14...	200	7.2	1.5	15.2	290	15	170	2.0
MAR.								
14...	170	7.1	7.0	12.8	2100	1000	140	.5
APR.								
02...	160	6.9	10.0	--	16000	3300	8700	17
02...	165	--	9.5	--	--	--	--	11
28...	180	7.6	10.0	--	2400	700	240	2.0
MAY								
23...	180	7.1	13.5	12.0	2900	1600	420	2.0
JUNE								
12...	190	8.3	24.0	11.4	6900	3400	400	--
JULY								
18...	200	8.2	22.0	11.6	7800	E7000	3100	.0
AUG.								
14...	240	7.3	25.0	11.0	24000	E14000	2900	1.0
SEP.								
12...	180	7.7	16.0	10.4	14000	6500	1500	.0

01451738 LYON CREEK AT LYON VALLEY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT.											
18...	1315	7000	17000	700	2.0	640	5000	740	110000	38	1.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT.											
18...	.0	E4	7.0	5.0	17	.7	.0	.0	.0	.0	<5

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
18...	E0	5	0	9	10	20	20	<.5	10	1	80

01451739 TRIBUTARY TO LYON CREEK NEAR PLEASANT CORNERS, PA.

LOCATION.--Lat 40°38'05", long 75°40'39", Lehigh County, at concrete bridge on Pennsylvania Route 100, 3.5 miles (5.6 km) south of Pleasant Corners, 0.3 mile (0.5 km) above mouth.

DRAINAGE AREA.--4.30 mi^2 (11.1 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: June to September 1972 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUNE 13...	1600	--	2.5	2.5	.07	.07	1.0	1.0	1.1	1.1	.02
JULY 19...	1300	22	2.5	--	.01	.05	.92	.83	.93	.88	.02
AUG. 23...	1400	50	2.0	1.5	.05	.05	.39	.29	.44	.34	.16
SEP. 20...	1310	63	.90	.79	.04	.04	.41	.47	.44	.51	.03

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 13...	.02	.02	.02	195	7.4	18.5	9.8	4200	1500	2300	--
JULY 19...	--	.01	--	--	7.8	26.0	8.8	--	--	--	--
AUG. 23...	.03	.08	.02	280	8.4	24.0	9.2	--	--	--	4.0
SEP. 20...	.03	.01	.01	275	7.9	18.0	10.2	--	--	--	4.0

01451770 MILL CREEK NEAR SCHNECKSVILLE, PA.

LOCATION.--Lat 40°40'35", long 75°38'25", Lehigh County, at concrete bridge on Pennsylvania Route 309, 2.0 miles (3.2 km) west of Schnecksville.

DRAINAGE AREA.--5.19 mi^2 (13.4 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.
Sediment records: August 1972 to April 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 358.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)
JUNE 13...	1330	7.5	33	4.1	4.1	.04	.04	1.2	1.2	--	--
JULY 19...	1045	5.6	43	2.9	2.5	.01	.04	.81	1.3	.82	1.3
AUG. 23...	1215	4.0	49	4.1	4.1	.09	.09	.21	.24	.30	.33
SEP. 20...	1100	4.0	56	2.8	2.6	.02	.05	.35	.62	.37	.67

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 13...	.07	.05	.05	.04	185	7.5	16.0	10.4	480	2300	--
JULY 19...	.07	.05	.06	.05	--	7.4	21.0	9.2	--	--	--
AUG. 23...	.18	.18	.16	.15	250	7.4	20.0	8.5	--	--	4.5
SEP. 20...	.22	.21	.18	.18	250	7.4	16.5	9.0	--	--	5.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT. 18...	1030	1.0	54	3.4	3.4	--	--	.02	.00
NOV. 22...	1045	23	16	6.3	6.8	--	--	.03	.01
DEC. 20...	1100	16	18	5.4	5.0	--	--	.02	.04
JAN. 17...	1040	4.0	24	1.8	1.8	--	--	.01	.05
FEB. 14...	1130	--	40	5.2	5.2	--	--	.06	.29
MAR. 13...	1620	12	20	4.7	5.4	--	--	.08	.06
APR. 02...	0015	56	--	3.2	--	--	--	.10	--
02...	1730	69	--	4.1	--	--	--	.12	--
28...	1030	7.3	--	3.6	--	--	--	.06	--
MAY 23...	1100	4.5	--	3.2	3.2	--	--	.12	.13
JUNE 12...	1030	3.5	--	--	3.7	.00	3.7	--	.15
JULY 18...	1040	1.5	--	--	3.7	.00	3.7	--	.04
AUG. 14...	1445	1.0	--	--	2.6	.00	2.6	--	.19
SEP. 12...	0900	1.0	64	--	3.2	.00	3.2	--	.11

01451770 MILL CREEK NEAR SCHNECKSVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.									
18...	.47	.63	.49	.63	--	.36	.35	.36	.35
NOV.									
22...	.20	.37	.23	.38	--	.03	.03	.03	.03
DEC.									
20...	.83	1.2	.85	1.2	--	.03	.03	.03	.03
JAN.									
17...	1.1	1.3	1.1	1.3	--	.07	.05	.05	.04
FEB.									
14...	.52	.70	.58	.99	--	.08	.06	.06	.05
MAR.									
13...	.22	.16	.30	.22	--	.07	.06	.06	.05
APR.									
02...	1.2	--	1.3	--	--	.18	--	.05	--
02...	.90	--	1.0	--	--	.14	--	.03	--
28...	.80	--	.86	--	--	.10	--	.07	--
MAY									
23...	.11	.15	.23	.28	--	.10	.08	.10	.08
JUNE									
12...	.20	--	.24	--	4.0	.16	--	--	.14
JULY									
18...	.14	--	.18	--	3.9	.22	--	--	.19
AUG.									
14...	.09	--	.28	--	2.9	.24	--	--	.22
SEP.									
12...	.15	--	.26	--	3.5	.58	--	--	.49

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
18...	275	6.9	8.0	9.4	--	--	--	7.5
NOV.								
22...	200	6.6	3.0	13.2	--	--	--	5.5
DEC.								
20...	215	7.6	5.0	13.4	--	--	--	3.0
JAN.								
17...	210	7.0	3.5	16.0	--	--	--	2.5
FEB.								
14...	195	7.3	1.5	15.0	240	11	59	2.5
MAR.								
13...	200	7.4	12.0	11.9	1400	160	46	--
APR.								
02...	150	6.9	9.5	--	13000	1200	4700	10
02...	170	--	10.0	--	--	--	--	7.5
28...	200	7.6	10.0	--	E1800	F1000	E280	2.5
MAY								
23...	190	7.2	13.0	11.6	4800	730	300	3.5
JUNE								
12...	215	7.4	21.0	11.4	4800	170	160	--
JULY								
18...	220	7.5	18.5	10.6	7200	670	380	.0
AUG.								
14...	240	7.4	22.0	12.0	4400	550	1000	1.0
SEP.								
12...	270	7.3	18.0	10.8	120000	>6000	1000	.0

01451770 MILL CREEK NEAR SCHNECKSVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT.											
18...	1030	2700	8000	1000	1.0	50	840	510	26000	4.1	.9

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT.											
18...	.0	0	.5	2.5	.7	.2	.0	.0	.0	.0	0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
18...	60	10	0	4	9	10	20	<.5	6	0	250

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA.

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, on upstream side of wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mile (1.6 km) downstream from Mill Creek, and 1.1 mile (1.8 km) southwest of Schnecksville.

DRAINAGE AREA.--53.0 mi^2 (137 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.
Sediment records: August 1972 to May 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 359.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUNE 13...	1400	52	--	3.4	3.4	.03	.03	1.2	1.2	1.2	1.2	.02
JULY 19...	1130	59	--	2.7	2.5	.01	.04	.70	1.2	.71	1.2	.01
AUG. 23...	1230	10	44	2.7	2.5	.06	.06	.16	.14	.22	.20	.03
SEP. 20...	1110	14	51	1.5	1.6	.02	.04	.38	.34	.40	.54	.04

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 13...	.02	.01	.01	170	8.0	17.0	12.2	330	160	560	--
JULY 19...	.00	.00	.00	--	6.9	24.0	11.0	--	--	--	--
AUG. 23...	.02	.01	.01	220	8.3	20.0	10.8	--	--	--	3.0
SEP. 20...	.04	.00	.01	200	7.7	17.0	10.6	--	--	--	4.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT. 18...	1130	15	51	1.5	1.3	--	--	.00	.00
NOV. 22...	1130	222	18	6.1	5.4	--	--	.06	.02
DEC. 20...	1115	150	14	5.9	4.3	--	--	.03	.04
JAN. 17...	1100	43	17	5.0	4.7	--	--	.02	.09
FEB. 14...	1230	1.4	22	5.6	4.7	--	--	.08	.10
MAR. 14...	0910	53	20	4.1	3.8	--	--	.09	.06
APR. 02...	0040	642	--	2.7	--	--	--	.13	--
02...	1740	853	--	3.2	--	--	--	.08	--
28...	1100	64	--	2.5	--	--	--	.02	--
MAY 23...	1130	38	--	2.7	2.5	--	--	.22	.24
JUNE 12...	1100	30	--	--	3.0	.00	3.0	--	.04
JULY 18...	1100	19	--	--	2.8	.00	2.8	--	.05
AUG. 14...	1500	14	--	--	1.7	.00	1.7	--	.10
SEP. 12...	0930	5.6	66	--	1.3	.00	1.3	--	.03

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT.									
18...	.35	.46	.35	.46	--	.02	.01	.02	.01
NOV.									
22...	.25	.33	.31	.35	--	.02	.01	.01	.01
DEC.									
20...	.35	.28	.38	.32	--	.03	.01	.02	.01
JAN.									
17...	1.5	1.5	1.5	1.5	--	.01	.01	.01	.00
FEB.									
14...	.82	.22	.90	.32	--	.02	.02	.01	.00
MAR.									
14...	.18	.10	.27	.16	--	.02	.02	.01	.00
APR.									
02...	1.8	--	1.9	--	--	.39	--	.09	--
02...	1.2	--	1.3	--	--	.22	--	.06	--
28...	.70	--	.72	--	--	.03	--	.01	--
MAY									
23...	.20	.23	.42	.47	--	.04	.01	.02	.01
JUNE									
12...	.29	--	.32	--	3.3	.02	--	--	.01
JULY									
18...	.15	--	.20	--	3.0	.03	--	--	.01
AUG.									
14...	.18	--	.20	--	1.9	.03	--	--	.03
SEP.									
12...	.24	--	.27	--	1.6	.03	--	--	.03

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
18...	210	7.0	8.0	12.8	--	--	--	8.5
NOV.								
22...	190	6.6	4.0	13.2	--	--	--	5.0
DEC.								
20...	185	6.8	5.0	13.5	1200	--	--	3.0
JAN.								
17...	180	7.7	1.5	15.2	--	--	--	2.0
FEB.								
14...	185	7.2	.0	15.8	140	4	35	1.5
MAR.								
14...	160	7.1	6.5	13.2	700	62	22	2.0
APR.								
02...	140	6.9	9.5	--	14000	2400	7300	34
02...	150	--	10.0	--	--	--	--	10
28...	160	7.5	10.8	--	4600	600	420	7.0
MAY								
23...	170	7.1	14.0	13.0	2800	440	180	4.0
JUNE								
12...	180	9.1	23.5	9.2	1900	E1400	E66	--
JULY								
18...	190	8.8	21.5	13.0	1100	E200	250	.0
AUG.								
14...	210	8.8	25.0	13.6	1600	110	260	.0
SEP.								
12...	200	7.5	17.5	10.0	5300	160	200	.0

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT. 18...	1130	4200	11000	1000	.00	140	2800	570	78000	28	.9

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT. 18...	.0	E10	14	27	14	29	.0	.0	.0	.0	E10

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT. 18...	E0	6	0	6	10	20	30	<.5	7	2	90

01454720 LEHIGH RIVER AT EASTON, PA.

LOCATION.--Lat 40°41'12", long 75°12'32", Northampton County, at Third Street Bridge, Easton, U.S. Highway 611.

DRAINAGE AREA.--1,360 mi^2 (3,530 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1973.
Water temperatures: October 1961 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 470 micromhos Oct. 28; minimum, 110 micromhos June 29, July 4-6.
Dissolved oxygen: Maximum, 15.0 mg/l Jan. 31; minimum, 3.5 mg/l Aug. 29.
Water temperatures: Maximum, 29.0°C Aug. 30; minimum, 0.5°C on several days during winter period.

Period of record:
Specific conductance (1961-73): Maximum, 581 micromhos Aug. 19, 1963; minimum, 82 micromhos Mar. 15, 1964.
Dissolved oxygen (1966-73): Maximum, 15.0 mg/l Feb. 22, 23, 1971; minimum, 0.0 mg/l Aug. 4, 1966.
Water temperatures (1961-73): Maximum, 30.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	381	358	368	309	232	265	264	220	243	178	159	163
2	368	351	359	308	253	272	238	223	230	177	165	170
3	375	355	362	270	253	261	229	219	222	181	165	174
4	399	378	389	270	250	258	233	219	223	190	161	174
5	401	382	392	268	249	256	253	230	239	190	175	181
6	419	395	404	255	232	243	259	239	249	185	175	181
7	400	310	356	269	245	258	233	169	192	189	176	181
8	350	309	326	269	185	232	199	178	187	199	183	189
9	368	351	360	198	112	140	216	188	201	236	202	223
10	362	331	347	162	149	159	190	165	173	249	231	237
11	373	356	366	169	157	162	188	171	179	245	228	239
12	389	369	379	170	161	166	211	188	197	249	232	239
13	419	385	403	191	171	180	211	200	208	239	220	231
14	409	362	384	191	155	171	219	203	211	240	229	233
15	375	340	355	219	172	198	265	218	233	240	230	233
16	359	332	347	218	148	168	256	230	235	268	240	256
17	370	335	345	153	145	150	230	222	226	280	259	270
18	381	357	368	216	154	187	240	222	231	291	274	284
19	375	357	364	219	200	209	249	239	244	299	263	281
20	392	360	378	210	185	197	250	239	244	285	248	268
21	391	370	382	201	189	194	246	228	234	251	240	248
22	409	378	394	202	190	197	231	200	222	265	240	252
23	399	370	385	213	200	205	199	170	181	256	158	199
24	408	370	384	219	208	212	188	172	182	175	150	160
25	437	392	416	231	219	222	190	165	188	179	150	162
26	450	405	426	237	190	220	217	190	199	190	180	186
27	462	415	441	182	162	169	219	208	213	198	181	192
28	470	411	447	187	168	176	222	212	217	199	174	188
29	448	293	340	199	187	193	229	215	222	221	172	194
30	297	269	282	213	198	202	228	219	221	221	200	208
31	260	211	228	---	---	---	221	181	209	219	205	214
MONTH	470	211	370	309	112	204	265	165	215	299	150	213

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	239	215	221	306	279	293	249	228	239	248	238	243
2	349	219	275	309	289	299	225	199	209	263	242	251
3	209	140	163	317	292	306	209	185	194	260	246	254
4	169	149	162	309	280	294	190	173	183	269	240	253
5	178	166	171	285	250	270	190	166	173	265	250	257
6	179	152	165	251	240	246	172	164	169	262	250	254
7	169	153	159	257	240	250	170	158	164	268	251	258
8	165	148	156	260	239	251	188	170	181	280	265	275
9	195	160	176	240	216	226	184	170	178	280	220	233
10	215	196	208	222	210	218	183	161	176	240	210	223
11	215	205	210	217	207	212	163	154	158	220	140	181
12	232	210	222	233	210	220	179	159	167	140	129	133
13	250	236	243	253	236	241	181	175	179	146	131	138
14	260	248	252	269	259	265	200	184	194	169	146	154
15	290	250	268	275	250	265	201	199	200	185	170	178
16	260	245	251	264	230	244	216	202	207	199	180	185
17	265	245	252	239	218	228	220	213	218	191	171	180
18	279	262	271	218	166	182	227	215	221	180	171	176
19	281	269	276	173	156	165	225	219	222	185	169	177
20	289	261	277	181	172	176	229	213	221	182	175	179
21	270	250	262	199	182	191	225	217	220	200	180	189
22	280	258	266	203	198	200	230	215	221	207	195	200
23	295	269	283	217	200	208	248	226	230	219	205	212
24	298	275	287	221	211	216	259	239	248	248	218	224
25	290	270	280	225	220	222	259	245	251	249	221	231
26	290	277	283	220	210	215	270	251	262	243	225	230
27	289	272	281	223	208	212	280	253	264	248	216	228
28	293	279	285	227	220	223	280	230	246	225	195	---
29	---	---	---	239	226	230	243	220	226	219	183	202
30	---	---	---	251	239	241	239	224	228	219	198	205
31	---	---	---	260	235	245	---	---	---	210	195	201
MONTH	349	140	236	317	156	234	280	154	208	280	129	210

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	216	200	208	199	170	187	342	323	331	418	327	385
2	226	210	215	220	199	208	328	172	254	320	290	308
3	229	219	220	230	215	220	169	149	154	320	300	309
4	249	212	230	219	110	161	152	130	140	310	295	---
5	280	250	266	120	110	115	172	133	150	---	---	---
6	285	260	277	119	110	113	210	175	189	---	---	---
7	284	190	249	132	118	125	240	210	226	---	---	---
8	188	150	162	133	129	130	273	238	258	---	---	---
9	170	150	158	149	130	136	285	258	269	---	---	---
10	199	170	183	159	149	151	292	262	279	---	---	---
11	212	192	202	170	160	164	295	250	281	---	---	---
12	230	214	225	215	170	199	278	245	257	---	---	---
13	253	239	246	255	210	236	260	218	240	370	353	---
14	263	239	248	280	260	267	252	220	240	379	269	346
15	264	247	253	280	260	267	298	245	273	262	198	222
16	270	250	260	260	248	252	282	255	267	202	193	198
17	268	255	262	275	250	262	291	260	277	240	209	226
18	270	255	263	295	270	281	280	260	270	269	246	259
19	287	265	275	295	275	286	288	222	259	255	190	217
20	310	275	296	300	285	292	250	230	242	211	199	201
21	313	288	305	300	270	290	292	252	275	249	218	239
22	314	285	303	270	248	256	294	273	286	261	240	255
23	311	287	299	249	230	241	303	290	298	250	240	252
24	311	204	259	260	250	251	316	292	306	245	219	231
25	218	194	205	285	250	270	320	300	312	250	221	234
26	218	195	203	303	270	288	318	300	311	300	250	272
27	220	210	217	335	295	309	323	305	314	305	270	290
28	250	219	230	335	298	307	346	319	328	310	283	304
29	250	110	170	320	300	308	370	350	363	305	270	288
30	170	120	152	327	303	309	390	366	377	290	230	255
31	---	---	---	340	310	323	410	384	393	---	---	---
MONTH	314	110	235	340	110	232	410	130	272	---	---	---

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.7	3.8	4.6	8.4	7.6	7.9	12.8	12.5	12.6	13.3	12.7	12.9
2	6.4	4.9	5.5	7.9	7.6	7.7	12.5	12.1	12.3	13.5	12.7	13.2
3	6.2	4.9	5.5	7.9	7.6	7.7	12.3	12.1	12.2	13.8	13.5	13.7
4	6.0	4.0	4.9	7.7	7.3	7.5	12.6	12.3	12.5	13.6	13.3	13.5
5	6.1	4.3	5.1	7.6	7.1	7.4	12.7	12.5	12.6	13.4	13.2	13.4
6	5.5	4.4	4.9	7.9	7.6	7.8	12.8	12.6	12.7	13.7	13.2	13.4
7	5.1	4.7	4.9	7.7	7.3	7.5	12.9	12.3	12.6	14.6	13.7	14.2
8	6.2	5.0	5.5	7.4	6.2	6.8	12.9	12.4	12.7	14.6	14.4	14.6
9	6.6	5.6	6.0	11.1	7.0	10.4	13.1	12.7	12.8	14.4	14.1	14.2
10	7.0	6.0	6.4	11.4	11.1	11.2	13.5	13.2	13.3	14.2	14.0	14.1
11	7.0	5.9	6.4	11.1	11.0	11.0	13.5	13.4	13.5	14.0	13.8	13.9
12	6.5	5.5	5.8	11.1	11.0	11.1	13.6	13.3	13.5	14.0	13.6	13.8
13	6.6	4.8	5.5	11.0	10.9	11.0	13.4	13.2	13.3	14.0	13.9	14.0
14	7.2	5.6	6.2	11.1	10.8	11.0	13.3	13.1	13.2	13.9	13.8	13.9
15	7.6	5.5	6.3	11.2	11.1	11.2	13.3	13.1	13.2	13.8	13.4	13.6
16	7.5	6.2	6.7	12.0	11.2	11.8	13.4	13.1	13.3	13.3	13.0	13.1
17	7.3	5.9	6.5	11.7	11.7	11.7	14.5	13.5	14.0	13.1	12.7	12.8
18	7.0	5.6	6.2	11.6	11.1	11.3	14.6	14.3	14.5	12.7	12.4	12.5
19	7.0	5.8	6.3	11.4	11.1	11.3	14.2	13.5	13.9	12.5	12.0	12.2
20	8.1	6.3	6.9	11.4	11.1	11.2	13.5	12.9	13.2	12.4	11.6	11.9
21	8.5	6.7	7.5	11.9	11.2	11.6	12.9	12.8	12.9	13.0	12.4	12.8
22	8.3	6.7	7.4	12.0	11.8	11.9	13.3	12.7	13.0	13.0	12.5	12.9
23	8.3	6.6	7.5	12.1	11.9	12.0	13.9	13.3	13.7	12.9	12.1	12.6
24	7.9	5.8	6.8	11.9	11.8	11.9	13.8	13.5	13.6	13.1	12.6	12.9
25	7.1	5.1	5.9	11.8	11.5	11.6	13.5	13.2	13.4	13.2	13.1	13.1
26	8.1	5.2	6.3	11.5	10.9	11.2	13.2	12.6	12.9	13.1	12.9	13.0
27	8.3	5.4	6.6	11.6	11.1	11.4	12.9	12.6	12.8	12.9	12.5	12.6
28	7.2	5.5	6.2	11.6	11.1	11.3	13.1	12.7	12.9	12.8	12.5	12.7
29	7.0	5.5	5.9	11.2	11.1	11.2	13.4	13.0	13.3	13.2	12.5	12.8
30	7.8	7.0	7.4	12.8	11.1	12.0	13.5	13.4	13.5	14.0	13.3	13.7
31	8.5	7.7	8.1	---	---	---	13.4	13.2	13.3	15.0	14.0	14.7
MONTH	8.5	3.8	6.2	12.8	6.2	10.4	14.6	12.1	13.1	15.0	11.6	13.3

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.0	11.7	11.8	10.5	9.9	10.1	10.1	9.0	9.5
2	---	---	---	11.8	11.2	11.5	10.7	10.1	10.5	9.6	8.4	8.9
3	---	---	---	11.2	10.6	10.8	11.7	10.6	11.2	8.7	7.6	8.2
4	---	---	---	10.9	10.7	10.8	11.9	11.6	11.7	9.2	7.4	8.3
5	---	---	---	11.1	10.6	10.8	12.2	11.8	11.9	9.6	8.2	8.9
6	---	---	---	11.1	10.7	10.9	12.1	11.6	11.9	10.3	8.9	9.6
7	13.4	13.2	---	11.7	10.9	11.4	11.6	11.1	11.4	10.0	8.5	9.2
8	13.2	12.8	13.0	11.6	11.3	11.5	11.1	10.6	10.8	8.6	7.8	8.2
9	13.2	12.9	13.1	11.6	11.3	11.4	11.6	11.1	11.4	9.5	8.4	8.9
10	13.6	13.2	13.4	11.7	11.1	11.4	11.0	10.6	10.8	9.3	8.3	8.8
11	13.7	13.5	13.6	11.5	11.1	11.3	11.8	11.1	11.5	9.0	7.7	8.3
12	13.8	13.5	13.7	11.4	11.1	11.2	11.8	11.5	11.7	9.7	9.1	9.5
13	13.6	13.3	13.5	11.1	10.7	10.9	11.7	11.4	11.6	10.0	9.7	9.9
14	13.3	13.1	13.2	10.8	10.1	10.4	11.4	11.1	11.3	10.2	9.8	10.0
15	13.0	12.7	12.9	10.8	10.2	10.5	11.0	10.7	10.8	9.8	9.6	9.7
16	12.8	12.5	12.7	11.2	10.5	10.8	10.6	10.1	10.4	10.1	9.5	9.8
17	13.4	12.8	13.2	10.8	10.0	10.2	10.0	9.5	9.7	10.1	9.2	9.7
18	13.5	13.2	13.4	11.8	10.1	11.0	10.0	9.3	9.6	10.4	9.4	10.0
19	13.2	12.9	13.1	12.6	11.9	12.4	9.5	8.8	9.2	10.6	9.8	10.3
20	12.9	12.7	12.8	12.6	12.3	12.4	9.4	8.4	8.9	9.7	9.3	---
21	12.7	12.5	12.6	12.4	12.0	12.2	9.7	8.5	9.1	---	---	---
22	12.6	12.2	12.3	12.3	11.8	12.0	9.6	8.4	9.0	---	---	---
23	12.3	12.0	12.2	12.6	11.8	12.2	8.7	7.9	8.4	---	---	---
24	12.6	12.3	12.4	12.3	11.8	12.1	9.1	7.3	8.1	---	---	---
25	12.7	12.5	12.6	11.8	11.2	11.5	9.4	7.6	8.5	---	---	---
26	12.7	12.3	12.4	11.3	11.0	11.1	9.1	8.2	8.7	---	---	---
27	12.4	12.1	12.2	11.3	10.8	11.0	9.4	8.8	9.1	---	---	---
28	12.3	12.0	12.1	11.4	10.4	10.9	9.7	8.9	9.3	---	---	---
29	---	---	---	11.5	10.5	11.0	10.4	9.4	9.8	---	---	---
30	---	---	---	11.0	10.2	10.6	10.2	9.3	9.7	---	---	---
31	---	---	---	11.2	10.3	10.7	---	---	---	---	---	---
MONTH	13.8	12.0	---	12.6	10.0	11.2	12.2	7.3	10.2	---	---	---

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.7	8.8	---	---	---	---	7.1	6.0	---	5.8	4.3	5.1
2	9.3	8.3	8.7	---	---	---	6.4	5.8	---	6.0	3.9	5.1
3	9.1	8.4	8.7	---	---	---	---	---	---	5.8	4.9	5.4
4	9.2	8.2	8.7	---	---	---	---	---	---	5.0	4.5	---
5	8.3	7.3	7.8	---	---	---	---	---	---	---	---	---
6	7.8	6.8	7.2	---	---	---	---	---	---	---	---	---
7	7.2	5.8	6.6	---	---	---	7.3	7.1	---	---	---	---
8	7.7	7.0	7.5	---	---	---	6.9	6.3	6.6	---	---	---
9	7.6	7.2	7.5	---	---	---	6.8	5.9	6.4	---	---	---
10	7.5	6.9	7.2	---	---	---	6.8	5.6	6.2	---	---	---
11	7.2	6.5	6.9	---	---	---	6.7	5.2	6.0	---	---	---
12	6.7	6.0	6.3	---	---	---	6.7	6.0	6.4	---	---	---
13	6.6	5.6	6.0	---	---	---	7.2	6.3	6.8	8.2	6.1	---
14	7.4	5.9	6.6	---	---	---	6.9	6.2	6.5	7.9	6.3	6.8
15	7.6	6.1	6.8	---	---	---	6.4	5.7	6.0	10.0	8.1	9.3
16	7.0	6.0	6.5	---	---	---	6.7	6.0	6.3	9.9	9.5	9.8
17	7.8	6.2	7.0	8.0	7.8	---	6.7	6.2	6.5	9.5	9.2	9.3
18	7.4	6.6	7.0	7.8	7.3	7.5	6.7	5.9	6.3	9.1	8.3	8.6
19	7.6	6.8	7.2	7.8	7.1	7.4	7.1	6.3	6.7	9.9	8.5	9.5
20	7.6	7.2	7.4	7.9	6.5	7.2	6.9	6.2	6.5	9.8	9.4	9.6
21	7.3	6.3	6.6	7.0	6.1	6.7	6.3	5.9	6.1	9.6	9.0	9.3
22	6.5	5.7	6.1	8.3	7.0	7.7	6.8	5.9	6.4	9.6	9.3	9.4
23	6.5	5.9	6.2	8.3	7.5	7.9	7.1	6.2	6.6	9.4	9.2	9.3
24	7.5	6.0	6.9	8.0	6.7	7.3	7.0	6.0	6.4	9.5	9.2	9.4
25	7.7	7.3	7.5	8.1	6.5	7.2	6.9	5.9	6.4	9.2	8.4	8.6
26	7.7	6.9	7.3	7.0	5.9	6.5	6.4	5.2	5.9	8.5	8.0	8.3
27	7.0	6.7	6.9	7.3	5.8	6.4	5.9	4.9	5.4	8.5	7.8	8.1
28	6.9	6.4	6.6	7.3	5.2	6.2	5.5	4.2	4.9	8.1	7.3	7.8
29	7.1	6.3	---	7.5	4.7	6.0	5.2	3.5	4.3	8.0	7.4	7.6
30	---	---	---	7.9	4.9	6.2	7.0	4.3	5.4	9.2	7.6	8.6
31	---	---	---	---	---	---	6.8	4.2	5.2	---	---	---
MONTH	9.7	5.6	7.1	---	---	---	7.3	3.5	---	---	---	---

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.7	7.5	7.7	---	---	---
2	---	---	---	---	---	---	7.8	7.7	7.8	---	---	---
3	---	---	---	---	---	---	7.8	7.7	7.8	---	---	---
4	---	---	---	---	---	---	7.8	7.7	7.8	---	---	---
5	---	---	---	---	---	---	7.7	7.7	7.7	---	---	---
6	---	---	---	---	---	---	7.8	7.6	7.7	---	---	---
7	---	---	---	---	---	---	7.9	7.5	7.7	---	---	---
8	---	---	---	---	---	---	7.5	7.4	7.4	---	---	---
9	---	---	---	---	---	---	7.6	7.4	7.5	---	---	---
10	---	---	---	---	---	---	7.6	7.5	7.6	---	---	---
11	---	---	---	---	---	---	7.5	7.5	7.5	7.6	7.0	---
12	---	---	---	---	---	---	7.5	7.4	7.5	---	---	---
13	---	---	---	---	---	---	7.5	7.5	7.5	---	---	---
14	---	---	---	---	---	---	7.5	7.5	7.5	---	---	---
15	---	---	---	---	---	---	7.6	7.5	7.5	7.8	7.7	---
16	---	---	---	---	---	---	7.6	7.5	7.5	7.8	7.8	---
17	---	---	---	---	---	---	7.5	7.4	7.5	---	---	---
18	---	---	---	---	---	---	7.5	7.2	7.4	---	---	---
19	---	---	---	---	---	---	7.5	7.5	7.5	---	---	---
20	---	---	---	---	---	---	7.5	7.4	7.5	---	---	---
21	---	---	---	---	---	---	7.4	7.3	7.4	---	---	---
22	---	---	---	---	---	---	7.4	7.3	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	7.5	7.2	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.7	7.6	7.7	7.5	7.3	7.4	7.3	6.5	7.0
2	---	---	---	7.7	7.7	---	7.3	7.2	---	7.3	6.8	7.1
3	---	---	---	---	---	---	---	---	---	7.2	6.8	7.1
4	---	---	---	---	---	---	---	---	---	7.6	7.0	7.3
5	---	---	---	---	---	---	---	---	---	7.5	7.0	7.4
6	---	---	---	---	---	---	---	---	---	7.8	6.9	7.4
7	7.3	7.0	---	7.4	7.2	---	---	---	---	7.8	6.8	7.3
8	7.0	6.8	6.9	7.4	7.3	7.3	---	---	---	7.3	6.9	7.2
9	7.2	7.0	7.1	7.5	7.3	7.4	---	---	---	7.5	7.0	7.2
10	7.3	7.2	7.2	7.6	7.3	7.5	---	---	---	7.5	6.7	7.1
11	7.4	7.2	7.3	7.5	7.4	7.5	---	---	---	7.4	7.2	7.3
12	7.4	7.2	7.3	7.5	7.4	7.5	7.5	7.4	---	7.3	7.1	7.2
13	7.5	7.3	7.4	7.6	7.5	7.6	7.6	7.5	7.5	7.3	7.2	7.3
14	7.5	7.4	7.5	7.6	7.4	7.5	7.6	7.4	7.6	7.3	7.1	7.2
15	7.4	7.4	7.4	7.5	7.4	7.5	7.7	7.4	7.6	7.2	6.8	7.0
16	7.6	7.2	7.4	7.5	7.4	7.4	7.7	7.6	7.6	7.5	6.7	7.2
17	7.7	7.6	7.7	7.5	7.3	7.4	7.6	7.5	7.6	7.5	6.9	---
18	7.7	7.6	7.7	7.5	7.4	7.5	7.6	7.4	7.6	---	---	---
19	7.7	7.6	7.7	7.5	7.4	7.4	7.6	7.3	7.5	---	---	---
20	7.6	7.6	7.6	7.5	7.4	7.5	7.7	7.4	7.6	---	---	---
21	7.6	7.5	7.5	7.5	7.4	7.5	7.8	7.4	7.6	---	---	---
22	7.6	7.5	7.5	7.6	7.4	7.5	7.8	7.5	7.6	---	---	---
23	7.6	7.5	7.6	7.5	7.3	7.5	7.6	7.4	7.5	---	---	---
24	7.6	7.5	7.6	7.5	7.4	7.5	7.7	7.1	7.4	---	---	---
25	7.7	7.6	7.7	7.6	7.4	7.5	8.1	7.3	7.4	---	---	---
26	7.7	7.6	7.6	7.5	7.4	7.5	7.3	7.1	7.2	---	---	---
27	7.7	7.6	7.6	7.6	7.4	7.5	7.4	7.2	7.3	---	---	---
28	7.7	7.6	7.7	7.6	7.4	7.5	7.3	7.1	7.2	---	---	---
29	---	---	---	7.6	7.4	7.5	7.6	6.9	7.2	---	---	---
30	---	---	---	7.5	7.4	7.5	7.6	6.8	7.2	---	---	---
31	---	---	---	7.6	7.4	7.5	---	---	---	---	---	---
MONTH	7.7	6.8	---	7.7	7.2	7.5	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.2	6.9	7.1	7.3	7.2	7.2
2	---	---	---	---	---	---	7.2	7.0	7.1	7.2	7.0	7.1
3	---	---	---	---	---	---	7.0	6.9	7.0	7.2	7.1	7.2
4	---	---	---	---	---	---	7.0	6.9	7.0	7.2	7.1	---
5	---	---	---	---	---	---	7.1	7.0	7.0	---	---	---
6	---	---	---	---	---	---	7.1	7.0	7.1	---	---	---
7	7.8	7.6	---	---	---	---	7.1	7.0	7.1	---	---	---
8	7.8	7.5	---	---	---	---	7.2	7.0	7.1	---	---	---
9	---	---	---	---	---	---	7.2	7.0	7.1	---	---	---
10	---	---	---	---	---	---	7.2	7.1	7.2	---	---	---
11	---	---	---	---	---	---	7.1	7.0	7.1	---	---	---
12	---	---	---	---	---	---	7.1	7.0	7.1	---	---	---
13	---	---	---	---	---	---	7.1	7.0	7.1	7.3	7.1	---
14	7.5	7.3	---	---	---	---	7.1	7.0	7.1	7.2	7.1	7.2
15	---	---	---	---	---	---	7.1	7.0	7.1	7.3	7.1	7.2
16	---	---	---	---	---	---	7.1	7.0	7.1	7.1	7.0	7.1
17	---	---	---	6.9	6.6	---	7.1	7.0	7.1	7.2	7.1	7.2
18	---	---	---	7.0	6.9	6.9	7.1	7.0	7.0	7.2	7.1	7.2
19	---	---	---	7.1	7.0	7.0	7.0	6.9	7.0	7.2	7.0	7.1
20	---	---	---	7.3	7.0	7.1	7.0	6.8	6.9	7.1	7.0	7.0
21	---	---	---	7.2	7.0	7.0	6.9	6.8	6.9	7.2	7.1	7.1
22	---	---	---	7.1	6.9	7.0	7.1	6.9	7.1	7.2	7.1	7.2
23	---	---	---	7.1	7.0	7.0	7.2	7.1	7.1	7.2	7.1	7.2
24	---	---	---	7.1	7.0	7.0	7.2	7.1	7.2	7.2	7.1	7.1
25	---	---	---	7.2	6.9	7.0	7.2	7.1	7.2	7.1	7.0	7.0
26	---	---	---	7.0	6.9	7.0	7.2	7.1	7.2	7.1	7.0	7.1
27	---	---	---	7.1	6.9	7.0	7.2	7.1	7.1	7.1	7.0	7.1
28	---	---	---	7.2	6.9	7.1	7.1	7.0	7.1	7.2	7.0	7.1
29	---	---	---	7.2	6.9	7.1	7.2	7.0	7.1	7.1	7.1	7.1
30	---	---	---	7.5	7.0	7.1	7.3	7.0	7.2	7.2	7.1	7.1
31	---	---	---	7.2	6.9	7.1	7.5	7.1	7.3	---	---	---
MONTH	---	---	---	---	---	---	7.5	6.8	7.1	---	---	---

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.0	18.5	11.0	11.0	11.0	4.5	4.0	4.5	8.5	6.5	7.5
2	18.5	16.5	17.5	11.5	11.0	11.5	5.5	4.5	5.0	8.0	5.5	6.5
3	19.0	16.5	17.5	13.0	11.5	12.5	6.0	5.0	5.5	5.5	4.5	5.0
4	19.0	17.0	18.5	12.0	12.0	12.0	6.0	5.5	5.5	4.5	4.5	4.5
5	19.0	18.0	18.5	12.0	11.5	12.0	6.0	5.5	5.5	5.0	4.5	5.0
6	19.5	18.5	19.0	12.0	11.0	11.5	8.0	6.0	7.0	5.0	3.0	4.0
7	19.0	17.0	18.5	11.5	11.0	11.0	8.0	6.0	6.5	3.0	0.5	1.5
8	17.0	16.0	16.5	13.0	11.0	12.5	6.0	5.0	5.5	0.5	0.5	0.5
9	16.5	15.5	16.0	11.0	10.0	10.5	6.0	5.5	5.5	1.0	0.5	0.5
10	15.5	14.5	15.0	10.0	9.5	9.5	7.0	6.0	6.5	1.0	0.5	1.0
11	15.5	14.0	15.0	9.5	9.5	9.5	6.5	6.0	6.5	1.5	1.0	1.0
12	15.5	14.5	15.0	9.5	9.5	9.5	6.0	5.0	5.5	1.5	1.0	1.0
13	15.5	15.0	15.0	9.5	9.5	9.5	5.0	5.0	5.0	2.0	1.0	1.5
14	15.5	14.0	14.5	9.5	8.5	9.0	5.5	5.0	5.0	3.0	1.5	1.5
15	15.0	14.5	15.0	8.5	8.0	8.5	5.0	4.5	4.5	3.5	3.0	3.0
16	14.5	13.5	14.0	7.0	6.5	7.0	4.5	3.0	4.0	4.5	3.5	4.0
17	15.5	14.0	14.5	7.0	6.5	7.0	3.0	1.0	2.0	5.0	4.0	4.5
18	15.0	13.5	14.0	7.0	6.0	6.5	1.5	0.5	1.0	5.5	5.0	5.0
19	13.5	11.5	12.0	6.5	6.0	6.0	4.0	1.5	2.5	6.5	5.5	5.5
20	11.5	10.5	11.0	6.0	5.5	6.0	5.0	4.0	4.5	6.5	4.5	5.5
21	12.0	10.5	11.0	6.0	5.0	5.5	5.5	5.0	5.5	4.5	3.5	4.0
22	12.0	11.0	11.5	5.0	4.5	5.0	5.0	5.0	5.0	5.5	4.0	4.5
23	14.0	12.0	13.0	4.5	4.0	4.5	5.5	5.0	5.5	5.5	5.0	5.5
24	15.5	14.0	14.5	4.5	4.0	4.0	5.5	5.0	5.0	5.0	4.5	5.0
25	15.5	14.5	14.5	5.0	4.5	4.5	5.5	5.0	5.5	4.5	4.0	4.0
26	14.5	13.5	14.0	7.0	5.0	6.0	6.0	5.5	6.0	5.0	4.0	4.5
27	14.0	13.0	13.5	6.5	5.5	6.0	6.0	5.5	6.0	5.0	5.0	5.0
28	15.5	13.5	14.0	6.0	5.5	6.0	5.5	5.0	5.5	5.0	5.0	5.0
29	15.5	14.0	14.5	6.0	5.5	6.0	5.0	4.5	4.5	5.0	3.0	4.0
30	14.0	13.0	13.5	5.5	4.5	5.0	4.5	4.0	4.5	3.0	1.0	2.0
31	13.0	11.0	11.5	---	---	---	6.5	4.5	5.0	1.5	1.0	1.0
MONTH	19.5	10.5	15.0	13.0	4.0	8.0	8.0	0.5	5.0	8.5	0.5	3.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	1.0	1.0	6.5	5.0	6.0	11.0	10.0	10.5	14.0	12.0	13.0
2	4.0	1.0	2.5	8.5	6.0	7.0	11.0	10.0	10.5	15.5	14.0	14.5
3	5.0	3.5	4.0	8.0	7.0	7.5	10.0	9.5	10.0	16.0	15.5	15.5
4	5.5	5.0	5.0	9.0	7.0	8.0	9.5	8.5	9.0	16.0	14.0	15.0
5	6.0	5.5	5.5	9.0	8.5	9.0	8.5	8.0	8.0	14.0	12.0	13.0
6	6.0	5.5	5.5	8.5	8.0	8.5	8.5	7.0	8.0	14.0	11.5	12.5
7	5.0	4.0	4.5	8.0	8.0	8.0	10.0	8.5	9.5	16.0	13.5	14.5
8	4.5	4.5	4.5	9.0	8.0	8.5	10.0	9.0	10.0	15.5	14.5	15.0
9	4.5	3.0	3.5	10.0	8.5	9.0	9.5	8.0	9.0	15.0	14.0	14.5
10	3.0	2.0	2.0	10.0	9.0	9.5	10.0	9.0	9.5	17.0	14.0	15.5
11	2.0	1.0	1.5	9.5	9.0	9.0	8.5	7.0	8.0	16.5	15.0	16.0
12	2.0	0.5	1.5	9.5	8.5	9.0	8.0	7.0	7.5	15.0	13.5	14.5
13	3.0	1.0	2.0	11.0	9.5	10.0	8.5	6.5	7.5	14.0	13.0	13.5
14	3.5	1.5	2.5	10.5	10.0	10.0	10.0	7.0	8.5	14.0	12.0	13.5
15	4.0	3.0	3.5	10.0	9.5	9.5	11.0	8.5	9.5	13.5	13.0	13.0
16	4.0	3.0	4.0	10.0	9.5	9.5	12.0	10.0	11.0	14.0	12.0	13.0
17	3.0	1.0	1.5	11.5	10.5	11.0	13.0	11.5	12.0	14.5	13.0	13.5
18	2.0	0.5	1.0	10.5	6.5	8.5	14.0	12.0	13.5	13.5	12.0	12.5
19	3.5	1.5	2.5	6.5	5.5	6.0	15.5	14.0	14.5	13.5	11.0	12.5
20	4.0	3.0	3.5	7.0	5.5	6.0	16.0	15.0	15.5	13.5	13.0	13.0
21	4.5	4.0	4.0	7.0	6.0	6.5	16.0	14.5	15.5	13.5	13.0	13.0
22	4.5	4.0	4.0	6.5	6.0	6.5	17.0	15.0	16.0	15.0	13.0	14.0
23	5.0	4.0	4.5	7.0	5.5	6.0	17.0	16.5	16.5	14.5	14.5	14.5
24	5.0	4.0	4.5	8.5	5.5	7.0	17.0	16.0	16.5	14.5	13.5	14.0
25	5.0	3.5	4.5	9.0	7.0	8.0	16.0	14.5	15.0	14.0	13.5	13.5
26	5.0	4.5	5.0	9.0	8.5	8.5	14.5	13.0	13.5	14.5	13.5	14.0
27	5.5	4.5	5.0	11.0	9.0	9.5	13.0	11.5	12.0	14.0	14.0	14.0
28	6.0	4.0	5.0	11.0	9.5	10.0	11.5	11.0	11.5	14.5	13.5	---
29	---	---	---	10.5	9.5	10.0	12.0	11.0	11.5	16.5	15.0	15.5
30	---	---	---	10.0	9.5	9.5	13.0	11.5	12.0	17.0	16.0	16.5
31	---	---	---	11.0	9.5	10.5	---	---	---	18.0	16.5	17.0
MONTH	6.0	0.5	3.5	11.5	5.0	8.5	17.0	6.5	11.5	18.0	11.0	14.0

01454720 LEHIGH RIVER AT EASTON, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.0	17.0	19.5	18.5	19.0	25.0	23.5	24.0	28.0	26.0	26.5
2	19.0	16.5	17.5	20.0	19.0	19.5	23.5	21.5	22.5	26.0	24.5	25.5
3	19.0	17.0	18.0	20.0	19.5	19.5	22.0	21.0	21.5	26.5	25.5	26.0
4	20.0	18.0	19.0	20.0	19.0	19.5	21.5	21.0	21.0	26.5	26.0	---
5	21.5	19.5	20.5	20.0	19.5	19.5	23.5	20.5	22.0	---	---	---
6	23.0	21.0	22.0	19.5	19.5	19.5	24.0	22.0	23.0	---	---	---
7	23.0	21.5	22.0	20.5	19.5	20.0	24.5	23.0	23.5	---	---	---
8	21.5	20.5	21.0	21.5	20.0	20.5	25.0	23.5	24.0	---	---	---
9	23.0	20.5	21.5	22.0	20.5	21.0	26.0	24.5	25.0	---	---	---
10	23.5	21.0	22.5	23.0	21.0	22.0	26.5	25.0	25.5	---	---	---
11	24.5	21.5	23.0	23.0	21.5	22.5	26.0	25.0	25.5	---	---	---
12	25.0	23.5	24.0	21.5	21.0	21.0	25.0	24.0	24.5	---	---	---
13	24.5	23.5	24.0	21.0	20.0	20.5	24.0	23.5	24.0	21.5	20.5	---
14	23.5	21.5	22.5	23.5	20.5	22.0	23.5	23.0	23.5	21.5	19.5	20.5
15	23.0	21.0	22.0	23.0	21.5	22.0	23.5	23.0	23.5	19.5	18.0	18.5
16	22.0	21.0	21.0	23.0	21.0	22.0	23.5	23.0	23.0	19.0	18.0	18.5
17	21.0	20.0	20.5	23.0	21.0	22.0	23.5	22.0	22.5	19.0	18.0	18.5
18	20.0	18.5	19.5	24.0	21.5	22.5	23.0	22.0	22.0	19.5	19.0	19.0
19	19.5	18.5	19.0	24.0	22.0	23.0	23.0	21.5	22.0	19.0	18.0	18.5
20	20.5	19.0	19.5	24.0	23.0	23.5	22.0	21.5	21.5	18.0	16.5	17.5
21	21.5	20.5	21.0	24.0	22.0	23.0	22.0	21.5	21.5	18.0	17.0	17.5
22	21.5	21.0	21.0	23.0	21.5	22.0	22.0	21.0	21.5	17.0	16.0	16.5
23	21.5	20.5	21.0	24.0	21.5	22.5	22.0	21.0	21.5	19.0	16.5	17.5
24	21.5	20.5	21.0	24.5	23.0	24.0	23.0	21.5	22.0	19.0	18.0	18.5
25	21.0	20.0	20.0	25.0	23.5	24.0	23.5	21.5	22.0	19.0	18.5	18.5
26	21.0	20.0	20.5	24.5	23.5	24.0	24.0	23.0	23.5	19.0	18.0	18.5
27	22.0	21.0	21.5	25.0	24.0	24.5	24.5	23.5	24.0	19.5	18.5	19.0
28	23.0	21.5	22.5	26.0	24.5	25.0	26.5	24.5	25.5	20.5	19.5	20.0
29	23.0	19.0	20.5	26.0	25.0	25.5	28.0	25.5	27.0	20.5	19.5	19.5
30	19.0	18.0	18.5	26.0	24.5	25.0	29.0	26.0	27.5	19.5	18.0	18.5
31	---	---	---	25.5	25.0	25.0	28.5	26.5	27.5	---	---	---
MONTH	25.0	16.0	21.0	26.0	18.5	22.0	29.0	20.5	23.5	---	---	---

01457500 DELAWARE RIVER AT RIEGELSVILLE, N.J. (RIEGELSVILLE, PA.)

LOCATION.--Lat 40°35'38", long 75°11'28", Warren County, at partial-record gaging station on left bank at suspension bridge 600 ft (183 m) upstream from Musconetcong River at Riegelsville.

DRAINAGE AREA.--6,328 mi^2 (16,390 km^2), including that of Musconetcong River.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Discharge records include flow of Musconetcong River. Water-quality records at periods of base flow probably are influenced by inflow from Musconetcong River.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.												
19...	1110	3800	--	--	--	--	--	--	--	--	.84	--
NOV.												
16...	1315	56200	--	--	--	--	--	--	--	--	.54	--
FEB.												
01...	1230	--	12	4.8	9.3	38	0	31	24	7.8	.88	--
22...	1300	9660	--	--	--	--	--	--	--	--	.84	--
MAR.												
22...	1235	18700	10	3.2	6.0	26	--	21	18	6.6	.61	.11
APR.												
26...	1400	12000	--	--	--	--	--	--	--	--	.72	--
MAY												
24...	1345	34000	--	--	--	--	--	--	--	--	.34	--
JUNE												
05...	0945	--	1.1	1.0	--	--	--	40	32	9.0	1.3	.30
21...	0700	--	18	5.3	--	48	0	39	22	11	--	--
AUG.												
02...	0900	7940	--	--	--	--	--	--	--	--	--	--
14...	1300	6340	--	--	--	--	--	--	--	--	--	--
SEP.												
26...	1230	6050	--	--	--	34	--	28	24	--	1.3	.32

DATE	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.											
19...	--	.67	.17	.15	--	--	--	--	206	6.8	10.5
NOV.											
16...	--	.48	.09	.06	--	--	--	--	95	7.1	6.0
FEB.											
01...	--	.42	.10	.07	97	--	50	19	157	7.1	.0
22...	--	.44	.12	.09	--	--	--	--	185	7.5	4.0
MAR.											
22...	.28	.39	.08	.05	71	--	39	17	120	7.4	5.0
APR.											
26...	--	.65	.13	.09	--	--	--	--	153	7.1	14.0
MAY											
24...	--	.38	.07	.03	--	--	--	--	95	7.4	14.0
JUNE											
05...	--	--	.05	--	--	--	80	--	115	7.5	15.5
21...	--	.63	.12	.08	152	--	67	27	170	7.4	21.0
AUG.											
02...	--	--	--	--	138	36	--	--	220	7.3	25.0
14...	--	--	--	--	114	6	--	--	180	7.7	25.0
SEP.											
26...	.44	1.5	.13	.09	108	7	61	33	169	7.4	19.0

01457500 DELAWARE RIVER AT RIEGELSVILLE, N.J. (RIEGELSVILLE, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)
OCT.											
19...	--	5	8.1	--	--	--	--	6.5	--	--	--
NOV.											
16...	--	13	12.3	--	--	1450	775	8.5	--	--	--
FEB.											
01...	1	11	15.0	--	4.8	--	--	5.0	--	.01	1
22...	--	2	13.5	--	--	625	775	9.0	--	--	--
MAR.											
22...	5	3	--	--	2.1	--	--	--	--	.01	0
APR.											
26...	--	2	--	--	--	--	--	5.0	--	--	--
MAY											
24...	--	1	10.2	--	--	1700	150	--	--	--	--
JUNE											
05...	--	1	8.5	3.0	--	--	--	--	--	--	--
21...	--	--	8.4	--	1.0	165	600	2.3	9.5	.03	--
AUG.											
02...	--	--	8.4	2.6	--	17000	2200	--	--	--	--
14...	--	--	7.6	1.6	--	7400	2000	--	--	--	--
SEP.											
26...	--	3	9.6	1.0	2.2	350	400	8.0	10	.03	--

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
JUNE							
21...	3.5	6.5	1.6	.2	.01	.12	98

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)
FEB.							
01...	1230	30	--	80	--	30	10
MAR.							
22...	1235	50	--	130	--	52	10
JUNE							
05...	0845	--	530	--	120	--	--
05...	0945	--	960	--	110	--	--
21...	0700	0	--	--	--	80	0
SEP.							
26...	1230	--	350	--	90	--	--

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
FEB.						
01...	--	1	--	--	3	340
MAR.						
22...	--	0	--	--	5	80
JUNE						
05...	--	--	--	--	--	--
05...	--	--	--	--	--	--
21...	3	0	--	--	9	520
SEP.						
26...	--	--	0	2	--	--

DATE	TIME	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
MAR.									
22...	1235	76	4	<.8	.4	2.1	<.4	1.7	<.4

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)

(International hydrological decade river station and radiochemical station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, at gaging station. Water-quality recorder located at raw-water intake of the Trenton Water Department about 600 ft (183 m) upstream from bridge on Calhoun Street in Trenton.

DRAINAGE AREA.--6,780 mi^2 (17,560 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1973.
Water temperatures: October 1944 to September 1973.
Sediment records: September 1949 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 231 micromhos Oct. 9; minimum, 85 micromhos Apr. 6.
Dissolved oxygen: Maximum, 14.9 mg/l Jan. 9, Feb. 13; minimum, 4.0 mg/l Nov. 9.
pH: Maximum, 10.0 Aug 26; minimum, 5.7 May 9-10.
Water temperatures: Maximum, 31.0°C Aug. 31; minimum, freezing point on several days during January and February.

Period of record:
Specific conductance: Maximum, 400 micromhos Jan. 24, 1959; minimum, 50 micromhos Mar. 19, 1945.
Dissolved oxygen (1962-73): Maximum, 16.9 mg/l Aug. 17, 1971; minimum, 4.1 mg/l Sept. 12, 1971.
pH (1968-73): Maximum, 10.2 July 5-6, 1971; minimum, 5.3 June 22, 1972.
Water temperatures: Maximum, 34.0°C June 18, 1957; minimum, freezing point on many days during winter periods.

REMARKS.--Sediment data for this station on page 328. Operated as part of the USGS-EPA surveillance network. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1779-X.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DEPTH (FT)	PERCENT OF TOTAL DEPTH	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
OCT.											
31...	1445	6268	3.0	50	--	--	--	--	--	--	--
NOV.											
09...	1700	44300	--	--	--	--	--	--	--	--	--
28...	1645	30600	3.5	50	--	--	--	--	--	--	--
JAN.											
19...	1315	11240	--	--	--	--	--	--	--	--	--
19...	1345	11180	--	--	--	--	--	--	--	--	--
19...	1415	11180	--	--	--	--	--	--	--	--	--
19...	1430	11180	--	--	3.1	--	--	--	--	--	--
FEB.											
02...	1700	23100	--	--	--	--	--	--	--	--	--
21...	1515	12080	3.0	50	--	--	--	--	--	--	--
MAR.											
29...	1100	15620	3.0	50	3.3	--	--	--	--	--	--
APR.											
25...	1415	13040	3.0	50	2.9	--	--	--	--	--	--
MAY											
08...	1445	11000	2.5	50	1.6	--	--	--	80	--	0
29...	1700	20900	--	--	--	--	--	--	--	--	--
JUNE											
21...	0930	7668	2.5	50	3.5	--	--	--	--	30	--
25...	1700	10100	--	--	--	--	--	--	--	--	--
JULY											
12...	0815	13660	--	--	3.7	--	--	--	--	--	--
AUG.											
02...	1700	25900	--	--	--	--	--	--	--	--	--
18...	1645	10100	3.0	50	4.5	420	35	380	70	80	30
SEP.											
25...	1330	6604	3.0	50	3.3	--	--	--	--	--	--

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.											
31...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
09...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	17	3.8	6.0	--	1.2	--	0	--	.8	37	17
FEB.											
02...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	6.4	--	2.4	--	50	--	40	41	33
MAR.											
29...	13	3.9	4.7	--	1.1	--	32	0	1.6	26	21
APR.											
25...	19	4.9	4.9	--	1.2	--	46	0	.2	38	24
MAY											
08...	19	6.1	5.7	--	1.4	--	48	0	5.0	39	25
29...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
21...	18	5.8	5.7	--	1.2	--	52	0	3.0	43	17
25...	--	--	--	--	--	--	--	--	--	--	--
JULY											
12...	13	4.7	4.6	4.6	.4	.4	38	0	.2	31	19
AUG.											
02...	--	--	--	--	--	--	--	--	--	--	--
18...	13	5.0	5.3	--	.5	--	40	0	.3	33	20
SEP.											
25...	16	6.4	7.2	--	2.0	--	49	0	2.5	40	24

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.											
31...	12	--	--	--	.57	--	1.2	--	.17	.14	--
NOV.											
09...	--	--	--	--	--	--	--	--	--	--	--
28...	6.7	--	--	--	.39	--	.63	--	.12	.08	--
JAN.											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	9.1	.2	.87	.59	.87	.28	.00	.04	.09	.07	118
FEB.											
02...	--	--	--	--	--	--	--	--	--	--	--
21...	12	--	--	.46	.67	.21	1.1	--	.13	.07	--
MAR.											
29...	8.4	.9	--	.59	.67	.08	.66	--	.07	.05	0
APR.											
25...	13	.6	--	--	.34	--	.66	2.9	.17	.07	101
MAY											
08...	8.5	.2	--	.25	--	.12	1.3	--	.07	.04	113
29...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
21...	9.2	.8	--	--	.35	.11	--	.03	.09	--	116
25...	--	--	--	--	--	--	--	--	--	--	--
JULY											
12...	6.5	1.3	.00	.19	.27	.08	.52	.00	.09	.00	116
AUG.											
02...	--	--	--	--	--	--	--	--	--	--	--
18...	7.2	1.2	1.1	.22	.28	.06	.83	.02	.09	--	--
SEP.											
25...	9.4	.3	1.5	.32	.32	.00	1.2	.04	.11	.10	106

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)
OCT.											
31...	--	--	--	--	--	202	7.8	11.8	--	--	4
NOV.											
09...	--	--	--	--	--	--	--	13.0	--	--	--
28...	--	--	--	--	--	105	7.0	5.5	14.5	--	12
JAN.											
19...	--	--	--	--	--	170	7.6	3.7	--	--	--
19...	--	--	--	--	--	170	7.6	3.7	--	--	--
19...	--	--	--	--	--	170	7.6	3.9	--	--	--
19...	--	--	--	58	25	162	10.2	--	--	--	9
FEB.											
02...	--	--	--	--	--	--	--	3.0	--	--	--
21...	--	110	6	57	16	173	6.3	3.9	12.0	--	1
MAR.											
29...	--	--	--	49	22	139	7.5	9.5	--	--	4
APR.											
25...	--	--	--	68	30	154	8.5	17.0	--	--	--
MAY											
08...	--	--	--	73	33	167	8.5	14.0	13.9	--	--
29...	--	--	--	--	--	--	--	15.0	--	--	--
JUNE											
21...	--	--	--	69	26	172	7.4	22.3	--	--	--
25...	--	--	--	--	--	--	--	22.0	--	--	--
JULY											
12...	74	--	--	52	21	135	8.6	22.7	--	--	--
AUG.											
02...	--	--	--	--	--	--	--	26.0	--	--	--
18...	--	88	10	53	20	142	8.3	23.5	--	11	3
SEP.											
25...	--	--	--	66	26	180	7.5	19.2	16.7	--	4

DATE	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL LEAD (PB) (UG/L)
OCT.											
31...	11.4	1.5	900	4.4	124	325	--	6.0	--	--	3
NOV.											
09...	--	--	--	--	--	--	--	--	--	--	--
28...	12.0	--	4000	1.2	200	1210	520	4.5	--	--	1
JAN.											
19...	12.7	.7	--	--	32	870	104	--	--	--	--
19...	12.3	.9	--	--	54	770	144	--	--	--	--
19...	12.4	.8	--	--	30	640	76	--	--	--	--
19...	--	--	62	--	--	--	--	--	--	--	60
FEB.											
02...	--	--	--	--	--	--	--	--	--	--	--
21...	13.6	1.8	9400	.4	8	2800	74	3.5	--	--	<1
MAR.											
29...	12.0	--	1600	--	20	280	10	--	--	--	--
APR.											
25...	10.4	2.0	5100	2.3	50	970	328	3.5	--	--	44
MAY											
08...	10.8	2.0	5800	--	800	910	76	4.0	--	.05	8
29...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
21...	9.0	1.1	13000	--	0	833	240	2.8	9.5	--	8
25...	--	--	--	--	--	--	--	--	--	--	--
JULY											
12...	8.2	1.9	9000	--	--	3750	250	3.0	7.0	--	5
AUG.											
02...	--	--	--	--	--	--	--	--	--	--	--
18...	9.8	1.7	2800	--	270	1000	720	4.0	--	.01	5
SEP.											
25...	9.4	1.7	2100	--	--	700	60	.0	--	--	1

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL BORON (B) (UG/L)
FEB. 21...	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	--	0	0	--	--	--	--	--	--	--	--
AUG. 18...	2	1	2	25	30	0	0	<2	<2	17	15

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)
FEB. 21...	<1	--	1	--	0	--	6	--	--	--	--
MAY 08...	0	0	0	0	0	--	0	0	--	--	--
AUG. 18...	<3	<3	<1	<2	<1	<2	2	3	0	0	2

DATE	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	TOTAL TIN (SN) (UG/L)
FEB. 21...	--	--	--	--	--	--	--	80	--	--	--
MAY 08...	--	--	--	--	--	--	--	20	40	--	--
AUG. 18...	3	0	0	56	56	<1.0	<1.0	7	12	<2	<2

DATE	DIS-SOLVED GALLIUM (GA) (UG/L)	TOTAL GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	TOTAL GER-MANIUM (GE) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	TOTAL TI-TANIUM (TI) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
FEB. 21...	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	--	--	--	--	--	--	1	--	--	--	--
AUG. 18...	0	0	<2	<2	2	2	1	1	<1	26	<3

DATE	TOTAL ZIR-CONIUM (ZR) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
FEB. 21...	--	--	--	.10	1.5	<.4	2.2	.6	2.7	.6	.06
MAY 08...	--	.5	.5	--	--	--	--	--	--	--	--
AUG. 18...	<3	<.5	<.5	.04	<1.3	.4	2.8	.4	3.6	.4	.04

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
MAY 08...	.00	.0	.00	.0	.0	9	.00	2.1	.00	1.4	.00	3.7
AUG. 18...	.00	.0	.00	.0	.0	10	.00	1.6	.00	.0	.00	4.0

DATE	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
MAY 08...	.00	.8	.00	.0	.00	.0	0	.00	.0	.00	.0
AUG. 18...	.00	1.4	.00	.0	.00	.0	0	.00	.0	.00	.0

DATE	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	PARATHION (UG/L)	DIAZINON (UG/L)	METHYL PARATHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TRITHION (UG/L)	METHYL TRITHION (UG/L)
MAY 08...	<.1	20	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 18...	.0	20	.00	.00	.00	.00	.03	.00	.00	.00	.00

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	198	189	192	198	192	196	133	119	124	143	119	132
2	208	198	204	192	180	185	136	132	134	117	95	108
3	207	202	205	196	181	189	136	133	135	102	93	97
4	214	203	206	196	190	195	142	136	138	112	95	103
5	217	204	214	193	189	191	146	139	143	124	110	118
6	217	206	215	191	176	184	146	134	143	124	112	121
7	204	181	---	175	168	171	148	133	141	128	121	124
8	226	197	208	170	120	153	141	101	116	134	111	130
9	231	196	213	157	115	139	120	105	114	152	135	144
10	196	193	194	132	91	102	121	118	119	163	155	---
11	193	189	191	94	91	---	118	117	118	163	159	161
12	210	193	200	109	98	103	124	117	121	163	160	161
13	211	197	204	115	109	112	131	121	126	169	162	165
14	197	191	194	121	109	116	135	131	134	169	165	167
15	213	198	204	128	108	122	134	131	132	172	168	169
16	213	202	210	103	94	98	147	132	140	178	173	176
17	210	205	208	102	95	99	148	142	147	175	173	174
18	208	203	205	112	101	106	146	143	145	174	169	172
19	205	198	201	124	112	118	---	---	---	175	171	173
20	202	196	198	132	119	124	---	---	---	175	168	172
21	206	202	204	138	130	133	---	---	---	174	168	173
22	202	192	196	129	121	124	---	---	---	166	154	159
23	201	199	200	130	125	127	---	---	---	168	146	154
24	200	195	197	135	130	131	---	---	---	170	125	147
25	204	199	201	141	135	138	---	---	---	122	113	118
26	205	199	202	146	137	142	---	---	---	125	115	120
27	207	204	205	148	121	136	---	---	---	131	126	129
28	207	188	203	121	108	114	135	133	---	138	124	130
29	201	187	196	119	107	113	136	132	133	140	133	---
30	225	197	214	120	116	118	138	135	137	155	133	146
31	217	193	203	---	---	---	140	138	138	152	139	149
MONTH	231	181	203	198	91	137	---	---	---	178	93	145

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	153	143	149	202	194	197	147	125	143	138	134	136
2	160	147	---	200	196	197	136	123	132	139	135	137
3	167	140	---	202	197	199	136	114	124	142	139	---
4	---	---	---	200	192	196	112	97	104	---	---	---
5	---	---	---	198	191	196	106	93	102	153	123	---
6	---	---	---	190	172	182	92	85	87	158	138	147
7	126	121	---	171	153	160	92	88	90	157	133	149
8	134	127	132	153	151	152	100	92	96	157	148	152
9	138	129	---	157	151	155	104	100	103	163	151	156
10	---	---	---	156	129	142	109	103	105	162	145	155
11	---	---	---	128	125	126	109	101	104	150	141	---
12	152	148	---	132	127	130	104	99	101	---	---	---
13	168	151	159	137	132	135	108	102	105	---	---	---
14	169	164	166	138	135	137	114	107	110	---	---	---
15	169	162	164	139	136	138	121	112	114	---	---	---
16	178	168	172	140	139	140	130	115	122	---	---	---
17	170	167	169	139	131	135	137	121	127	---	---	---
18	173	169	171	131	126	129	135	122	---	---	---	---
19	179	172	176	125	104	111	140	127	137	---	---	---
20	186	176	179	112	104	108	140	136	138	---	---	---
21	184	180	183	123	112	116	142	138	140	---	---	---
22	180	176	178	124	121	123	145	139	142	---	---	---
23	181	175	178	123	118	121	147	144	145	---	---	---
24	187	178	182	135	119	125	151	145	147	99	97	---
25	190	184	186	143	127	135	155	145	151	105	99	102
26	192	187	189	142	129	134	149	143	145	109	105	107
27	194	191	192	146	137	143	153	143	149	114	101	110
28	203	194	198	142	130	136	143	129	137	116	109	113
29	---	---	---	132	128	131	148	135	142	131	112	121
30	---	---	---	138	132	134	140	135	137	133	122	125
31	---	---	---	143	138	140	---	---	---	121	101	107
MONTH	203	121	---	202	104	145	155	85	123	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	125	106	117	---	---	---	197	162	186	186	167	176
2	129	112	122	---	---	---	202	98	162	195	174	189
3	132	125	127	---	---	---	---	---	---	201	196	---
4	135	130	133	---	---	---	---	---	---	---	---	---
5	137	135	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	127	113	---	---	---	---	---	---	---
10	---	---	---	127	113	120	162	152	---	---	---	---
11	115	112	---	130	124	126	165	158	161	---	---	---
12	124	115	120	137	124	131	169	156	164	---	---	---
13	127	120	125	155	136	143	173	154	164	212	205	---
14	132	126	130	176	156	164	179	153	166	215	187	197
15	136	131	133	180	172	176	188	175	179	199	191	196
16	138	131	135	181	148	170	184	172	176	206	189	197
17	148	138	142	173	148	164	179	166	175	---	---	---
18	155	147	150	175	144	167	161	144	145	---	---	---
19	163	151	158	173	139	158	151	146	149	200	186	---
20	166	160	164	178	137	160	167	149	155	200	182	192
21	159	140	155	184	177	180	170	156	162	182	173	176
22	167	161	---	184	173	178	178	168	172	179	172	173
23	169	160	166	184	180	182	173	170	171	190	180	186
24	168	150	157	184	179	181	180	173	176	191	188	190
25	164	142	154	193	183	189	188	181	184	194	184	188
26	162	149	156	197	191	195	192	188	190	185	177	181
27	163	143	---	202	197	200	194	190	193	176	172	174
28	147	142	144	209	203	207	196	194	195	180	175	178
29	146	102	130	210	200	206	199	184	194	---	---	---
30	114	99	109	207	170	186	195	173	184	---	---	---
31	---	---	---	183	169	175	180	170	173	---	---	---
MONTH	169	99	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.1	7.5	8.7	9.8	9.0	9.4	13.5	12.5	13.1	12.6	12.0	12.3
2	11.4	8.6	9.8	10.9	9.0	9.6	13.6	13.2	13.4	12.8	12.4	12.6
3	11.1	7.8	9.9	11.0	8.8	9.6	13.7	12.9	13.2	13.6	12.3	13.2
4	11.4	7.6	9.0	10.0	8.7	9.2	13.2	12.5	12.9	13.2	12.4	13.0
5	10.8	7.4	8.5	10.0	8.1	9.2	13.4	12.7	13.0	13.1	12.7	13.0
6	10.8	7.3	8.5	9.4	8.1	8.7	13.1	11.9	12.8	13.3	12.5	13.0
7	7.8	7.2	7.5	12.0	8.2	10.1	12.7	12.0	12.4	13.7	13.2	13.5
8	9.5	7.7	8.4	10.2	7.2	9.2	13.6	12.6	13.2	13.8	13.4	13.6
9	10.2	7.9	9.0	10.3	4.0	7.0	13.8	13.4	13.6	14.9	13.3	14.5
10	12.2	9.4	10.4	10.1	5.2	7.2	13.7	12.9	13.2	14.8	12.6	14.0
11	13.4	9.3	11.1	9.6	8.0	---	13.3	12.8	13.0	14.3	13.6	13.9
12	11.8	8.8	10.0	11.4	10.2	10.8	13.6	12.8	13.2	14.2	13.9	14.1
13	13.8	8.4	10.6	10.2	9.8	10.0	13.1	12.9	13.0	14.2	13.9	14.0
14	14.3	9.3	11.4	11.0	9.4	10.6	13.0	12.9	13.0	14.0	13.8	13.9
15	14.4	9.2	11.3	11.3	10.9	11.0	13.1	12.6	12.9	13.9	13.4	13.7
16	13.3	9.2	10.8	12.3	11.4	11.9	13.2	12.5	12.8	13.4	12.8	13.2
17	14.7	8.9	11.2	12.5	11.9	12.2	13.5	12.9	13.3	13.3	12.6	12.8
18	13.6	9.3	11.1	12.4	12.1	12.2	14.0	10.8	13.2	12.8	12.1	12.6
19	12.7	9.1	10.6	12.5	12.3	12.4	---	---	---	12.7	12.3	12.5
20	14.2	9.8	11.7	12.5	12.0	12.2	---	---	---	12.4	12.3	12.4
21	14.4	10.1	12.0	12.7	12.4	12.5	---	---	---	12.9	12.5	12.7
22	14.3	9.9	11.7	13.2	12.6	12.7	---	---	---	13.4	12.7	13.0
23	14.0	9.2	11.1	13.3	12.7	12.9	---	---	---	12.8	12.2	12.5
24	14.0	8.9	11.4	13.1	12.8	13.0	---	---	---	13.2	12.2	12.7
25	13.4	9.2	11.2	13.1	12.6	12.9	---	---	---	13.4	13.1	13.3
26	14.0	9.0	11.3	12.8	11.7	12.2	---	---	---	13.2	12.9	13.1
27	13.1	9.1	10.5	12.0	11.7	11.9	---	---	---	12.8	12.6	12.7
28	10.1	7.5	9.0	12.3	11.8	12.1	12.2	10.8	---	12.9	12.3	12.5
29	8.9	7.3	8.2	12.8	12.1	12.4	12.4	11.9	12.3	12.7	12.1	12.4
30	10.5	8.4	9.2	13.1	12.6	12.8	12.7	12.5	12.6	13.0	12.5	12.8
31	11.3	8.7	9.5	---	---	---	12.8	12.5	12.6	13.5	13.1	13.4
MONTH	14.7	7.2	10.1	13.3	4.0	11.0	---	---	---	14.9	12.0	13.1

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.7	13.4	13.6	14.0	13.2	13.6	10.4	9.6	10.0	11.5	10.1	10.7
2	13.4	12.3	13.0	13.7	12.9	13.3	9.7	9.3	9.5	11.2	9.8	10.4
3	12.6	12.3	12.5	12.8	12.2	12.5	10.2	9.0	9.4	9.8	9.3	---
4	12.8	11.5	12.2	12.7	11.8	12.2	10.0	9.3	9.8	---	---	---
5	13.1	11.3	---	12.8	11.6	12.2	10.2	9.9	10.1	10.2	9.5	---
6	---	---	---	12.2	11.5	11.9	10.4	9.5	9.9	12.2	9.2	10.6
7	13.3	13.1	---	12.2	11.5	11.8	---	---	---	13.0	9.5	11.1
8	13.2	12.7	13.0	12.2	11.7	11.9	10.3	8.9	9.9	11.0	9.3	10.1
9	13.1	12.7	---	12.3	11.6	11.9	11.7	10.0	10.7	10.3	8.7	9.3
10	---	---	---	12.4	11.6	12.0	---	---	---	9.4	8.5	9.0
11	---	---	---	12.0	11.3	11.7	---	---	---	8.7	7.3	8.2
12	14.0	13.6	---	11.7	11.0	11.4	---	---	---	7.5	7.1	7.2
13	14.9	13.6	13.9	11.9	10.7	11.3	---	---	---	8.4	7.5	7.9
14	13.8	13.4	13.7	11.8	11.0	11.3	---	---	---	8.4	8.3	8.4
15	13.4	13.1	13.2	11.6	10.9	11.2	---	---	---	8.4	8.1	8.3
16	13.2	12.8	13.0	11.6	10.7	11.1	---	---	---	8.7	8.3	8.5
17	13.9	13.0	13.6	10.9	10.0	10.5	---	---	---	9.4	8.7	9.1
18	14.2	13.9	14.1	10.8	10.3	10.6	---	---	---	10.2	9.2	9.7
19	14.2	13.7	14.0	11.1	10.8	10.9	---	---	---	9.6	9.2	9.5
20	13.7	13.2	13.5	12.1	11.3	11.6	10.9	9.9	---	9.6	9.2	9.5
21	13.7	12.9	13.2	12.4	12.0	12.2	11.6	10.0	10.7	9.7	9.3	9.5
22	13.5	13.2	13.4	12.6	12.3	12.5	11.8	9.9	10.7	---	---	---
23	13.5	13.1	13.3	12.7	11.9	12.4	11.5	9.1	10.1	---	---	---
24	13.6	13.1	13.4	12.9	12.0	12.6	11.9	8.7	10.1	9.9	9.7	---
25	13.9	13.3	13.6	13.1	12.3	12.8	11.1	8.6	9.8	9.8	9.7	9.7
26	13.7	13.1	13.4	12.6	11.8	12.1	9.5	8.9	9.2	10.0	9.6	9.8
27	13.9	13.0	13.4	11.9	10.9	11.4	9.6	9.0	9.3	10.0	9.5	9.7
28	14.0	13.3	13.6	12.0	11.2	11.6	9.7	9.2	9.5	9.6	9.3	9.5
29	---	---	---	12.0	10.4	11.1	10.5	9.7	10.1	9.2	8.8	9.1
30	---	---	---	11.1	10.5	10.8	11.1	10.1	10.5	9.3	9.0	9.2
31	---	---	---	11.2	10.1	10.4	---	---	---	9.4	8.8	9.1
MONTH	14.9	11.3	---	14.0	10.0	11.8	---	---	---	13.0	7.1	9.3

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.6	8.8	9.1	---	---	---	10.9	7.6	9.0	12.6	6.9	9.3
2	9.5	8.8	9.1	---	---	---	8.0	6.7	7.2	12.2	6.9	---
3	9.5	8.6	9.0	---	---	---	7.5	6.6	7.0	---	---	---
4	10.1	8.5	9.2	---	---	---	7.4	6.7	7.1	---	---	---
5	9.2	8.3	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	7.6	7.0	7.3	---	---	---
7	---	---	---	---	---	---	8.2	7.2	7.7	---	---	---
8	---	---	---	---	---	---	10.0	7.8	8.6	---	---	---
9	---	---	---	8.9	8.1	---	10.4	7.5	8.8	---	---	---
10	---	---	---	9.1	7.9	8.5	10.3	7.3	8.5	---	---	---
11	7.8	7.2	---	9.0	8.0	8.4	10.1	7.1	8.4	---	---	---
12	8.5	6.9	7.7	9.7	8.1	8.9	8.9	7.1	8.0	---	---	---
13	8.7	6.8	7.7	10.9	8.6	9.7	10.3	7.2	8.3	12.1	8.7	---
14	9.1	7.1	8.0	11.2	8.9	10.0	9.8	7.1	8.2	8.6	7.2	7.8
15	9.3	7.2	8.2	9.5	8.3	8.9	8.9	7.1	7.8	8.0	6.9	7.4
16	8.3	7.3	7.8	10.8	8.3	9.4	8.9	7.1	7.8	7.1	6.4	6.8
17	9.5	7.1	8.2	11.8	8.6	10.1	7.9	7.4	7.7	8.4	6.9	7.5
18	9.1	7.6	8.2	12.6	8.8	10.6	8.2	7.3	7.7	9.0	7.2	8.0
19	9.5	7.6	8.4	13.6	9.1	11.0	9.0	7.3	8.2	9.6	7.9	8.6
20	10.4	7.5	8.8	13.2	9.0	10.9	8.9	7.6	8.2	9.6	7.7	8.4
21	10.1	7.5	8.5	10.9	7.7	8.9	10.0	7.8	8.7	9.9	8.1	8.8
22	8.0	7.6	---	7.5	6.5	6.9	10.4	7.8	8.8	10.1	8.1	8.8
23	9.7	7.8	8.6	8.9	6.7	7.4	11.5	8.0	9.7	10.5	7.8	8.9
24	8.4	6.6	7.9	12.5	9.3	10.7	12.4	8.7	10.4	10.8	8.2	9.2
25	7.4	6.7	7.1	12.8	8.0	10.2	12.8	8.7	10.6	9.5	8.0	8.6
26	7.7	7.3	7.5	12.4	8.0	9.9	14.1	8.9	11.3	10.0	7.8	8.9
27	8.2	7.1	7.9	12.2	7.7	9.7	12.9	8.5	10.7	11.1	8.4	9.6
28	8.4	7.4	7.8	12.8	7.5	9.9	13.3	7.9	10.2	10.7	8.2	9.2
29	7.5	6.9	7.2	11.8	7.5	9.7	12.7	7.6	9.4	9.8	7.4	8.2
30	8.0	6.9	---	12.4	7.4	9.8	12.2	6.6	9.1	9.7	7.2	8.3
31	---	---	---	13.5	7.8	10.4	12.5	6.4	9.2	---	---	---
MONTH	10.4	6.6	---	---	---	---	14.1	6.4	8.7	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.3	7.8	7.3	7.1	7.2	7.1	7.0	7.1	7.1	6.5	6.8
2	8.8	7.5	8.0	7.7	7.0	7.2	7.2	7.1	7.2	6.9	6.8	6.9
3	9.0	7.5	8.2	8.0	7.0	7.3	7.3	7.1	7.2	7.0	6.7	6.9
4	9.2	7.6	8.3	7.5	7.1	7.3	7.3	7.2	7.2	7.1	7.0	7.0
5	9.0	7.5	8.1	7.3	7.1	7.1	7.3	7.3	7.3	7.2	7.1	7.2
6	9.0	7.5	8.1	7.5	7.1	7.2	7.4	7.1	7.3	7.2	7.2	7.2
7	7.6	6.9	7.3	7.7	7.1	7.3	7.3	7.1	7.2	7.3	7.2	7.3
8	8.4	7.4	7.8	7.1	6.6	7.0	7.2	7.0	7.1	7.4	7.3	7.3
9	8.6	7.5	7.9	7.2	6.6	6.9	7.0	6.9	7.0	7.5	7.3	7.4
10	8.9	7.6	---	6.9	6.5	6.7	7.1	7.0	7.0	7.6	7.4	---
11	9.2	7.5	8.3	6.6	6.6	---	7.1	7.0	7.1	7.6	7.2	7.3
12	8.8	7.6	8.0	6.8	6.7	6.8	7.1	6.9	7.0	7.3	7.2	7.2
13	9.2	7.4	8.2	6.9	6.8	6.8	7.3	7.0	7.1	7.2	7.2	7.2
14	9.4	7.5	8.4	6.8	6.6	6.7	7.3	7.1	7.2	7.3	7.2	7.2
15	9.4	7.5	8.5	7.0	6.7	6.9	7.2	7.0	7.1	7.3	7.2	7.2
16	9.2	7.7	8.4	6.8	6.8	6.8	7.1	7.1	7.1	7.3	7.2	7.2
17	9.5	7.5	8.5	6.9	6.8	6.9	7.2	7.1	7.2	7.4	7.3	7.3
18	9.5	7.9	8.7	7.1	6.9	6.9	7.3	7.2	7.2	7.3	7.1	7.2
19	8.9	7.6	8.1	7.0	6.9	7.0	---	---	---	8.1	7.2	7.4
20	9.4	7.6	8.5	7.1	7.0	7.0	---	---	---	8.1	7.3	7.5
21	9.5	7.9	8.7	7.1	6.5	6.9	---	---	---	7.3	7.2	7.3
22	9.5	7.9	8.7	7.1	7.0	7.1	---	---	---	7.8	7.3	7.4
23	9.4	7.6	8.5	7.2	7.1	7.2	---	---	---	7.5	7.3	---
24	9.6	7.6	8.6	7.2	7.1	7.1	---	---	---	7.3	7.0	7.1
25	9.5	7.9	8.7	7.2	7.1	7.2	---	---	---	7.0	6.9	6.9
26	9.4	7.8	8.6	7.2	7.1	7.2	---	---	---	7.0	6.9	6.9
27	9.2	7.8	8.3	7.3	7.1	7.2	---	---	---	7.0	6.9	7.0
28	8.1	6.7	7.4	7.1	6.8	7.0	6.9	6.2	---	7.0	6.8	6.9
29	7.2	6.9	7.0	7.1	6.8	7.0	7.1	6.9	7.0	7.1	6.8	6.9
30	7.7	7.0	7.3	7.1	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.0
31	7.8	7.1	7.3	---	---	---	8.3	7.0	7.3	7.2	7.1	7.2
MONTH	9.6	6.7	8.1	8.0	6.5	7.0	---	---	---	8.1	6.5	7.1

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.1	7.2	7.6	7.3	7.4	7.8	7.1	7.5	7.9	7.2	7.5
2	7.6	6.8	7.1	7.7	7.3	7.5	7.2	7.0	7.1	8.0	7.2	7.5
3	7.2	6.8	7.0	7.5	7.3	7.4	7.2	7.0	7.1	7.4	7.2	---
4	6.9	6.7	6.8	7.6	7.2	7.3	7.0	6.9	7.0	---	---	---
5	6.8	6.7	---	7.7	7.3	7.5	7.0	6.8	6.9	7.7	7.4	---
6	---	---	---	7.4	7.2	7.3	6.8	6.7	6.8	8.7	7.2	7.9
7	6.9	6.8	---	7.3	7.0	7.2	6.9	6.8	6.9	9.0	7.4	8.2
8	6.9	6.8	6.8	7.2	7.0	7.1	6.9	6.9	6.9	8.4	7.4	7.9
9	7.0	6.8	6.9	7.6	7.0	7.3	7.1	6.9	7.0	7.3	5.7	6.6
10	7.0	6.9	6.9	7.5	7.1	7.3	7.0	6.9	7.0	6.8	5.7	6.2
11	7.0	6.9	6.9	7.2	7.0	7.1	7.0	6.9	6.9	7.2	6.1	6.6
12	7.0	6.9	6.9	7.4	6.9	7.1	7.0	6.9	6.9	6.6	6.3	6.5
13	7.2	7.0	7.1	7.8	7.1	7.3	7.0	6.9	7.0	6.7	6.4	6.6
14	7.4	7.1	7.1	7.6	7.0	7.3	7.1	7.0	7.0	6.8	6.4	6.7
15	7.3	7.1	7.1	7.4	7.0	7.1	7.2	7.1	7.2	6.8	6.5	6.7
16	7.2	7.1	7.1	7.5	6.9	7.2	7.3	7.1	7.2	6.9	6.7	6.8
17	7.2	7.1	7.1	7.1	6.9	7.0	7.3	7.1	7.2	7.0	6.8	6.9
18	7.2	7.1	7.2	7.0	6.9	6.9	7.3	7.2	---	7.0	6.8	6.9
19	7.3	7.2	7.2	6.9	6.8	6.9	7.4	7.2	7.3	7.0	6.7	6.9
20	7.4	7.2	7.3	6.9	6.7	6.8	7.6	7.1	7.3	---	---	---
21	7.4	7.2	7.3	7.1	6.8	6.9	7.8	7.2	7.5	---	---	---
22	7.4	7.3	7.4	7.3	6.9	7.1	8.2	7.0	7.6	---	---	---
23	7.4	7.2	7.3	7.5	7.0	7.2	8.3	7.2	7.7	---	---	---
24	7.4	7.2	7.3	7.8	7.0	7.3	8.5	7.2	7.8	---	---	---
25	7.4	7.3	7.3	7.7	7.0	7.3	8.3	7.3	7.7	---	---	---
26	7.4	7.3	7.3	7.2	6.9	7.0	7.5	7.1	7.2	---	---	---
27	7.5	7.3	7.4	7.4	7.1	7.2	7.3	7.1	7.1	---	---	---
28	7.6	7.3	7.4	8.0	7.0	7.4	7.2	7.0	7.1	---	---	---
29	---	---	---	8.2	7.1	7.6	7.5	7.2	7.3	---	---	---
30	---	---	---	7.7	7.1	7.4	7.7	7.2	7.5	---	---	---
31	---	---	---	8.3	7.2	7.7	---	---	---	---	---	---
MONTH	7.6	6.7	7.1	8.3	6.7	7.2	8.5	6.7	7.2	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	9.3	8.4	8.9	9.7	7.9	8.9
2	---	---	---	---	---	---	8.3	6.6	7.3	9.4	7.6	8.2
3	---	---	---	---	---	---	7.3	6.8	7.1	---	---	---
4	---	---	---	---	---	---	7.3	6.9	7.2	---	---	---
5	---	---	---	---	---	---	7.4	6.8	7.0	---	---	---
6	---	---	---	---	---	---	7.6	7.3	7.4	---	---	---
7	---	---	---	---	---	---	8.1	7.4	7.7	---	---	---
8	---	---	---	---	---	---	8.8	7.6	8.1	---	---	---
9	---	---	---	7.7	7.2	---	9.2	7.8	8.4	---	---	---
10	---	---	---	7.7	6.9	7.3	9.1	7.8	8.5	---	---	---
11	---	---	---	7.6	7.2	7.3	9.1	7.8	8.4	---	---	---
12	---	---	---	8.3	7.4	7.8	8.6	7.6	8.1	---	---	---
13	---	---	---	8.7	7.4	8.0	9.0	7.6	8.3	9.5	8.7	---
14	8.7	7.5	8.1	8.9	7.6	8.2	8.9	7.7	8.3	8.5	7.2	7.9
15	8.8	7.7	8.2	8.0	7.5	7.7	8.5	7.5	7.9	7.9	7.4	7.6
16	8.2	7.4	7.9	9.0	7.4	8.1	8.2	7.4	7.7	7.6	7.3	7.5
17	9.0	7.2	8.2	9.2	7.9	8.6	7.7	7.5	7.6	7.9	7.5	7.7
18	8.7	8.0	8.2	9.5	8.2	8.9	7.6	7.4	7.5	8.1	7.4	7.6
19	8.6	7.6	8.1	9.7	8.5	9.1	7.9	7.4	7.6	8.3	7.5	7.8
20	8.1	6.7	7.6	9.9	8.7	9.2	7.9	7.4	7.6	8.1	7.5	7.7
21	7.2	6.6	6.9	9.3	8.0	8.8	8.7	7.5	8.0	8.3	7.4	7.8
22	7.0	6.4	---	7.9	7.3	7.5	8.9	7.5	8.0	8.7	7.5	7.9
23	8.2	7.0	7.5	8.5	7.4	7.8	9.4	7.8	8.6	8.7	7.2	7.8
24	7.9	7.2	7.6	9.4	7.9	8.6	9.6	8.2	8.9	8.7	7.4	7.9
25	7.3	7.1	7.2	9.6	8.3	9.0	9.6	8.0	8.9	8.2	7.4	7.7
26	7.7	7.3	7.5	9.5	8.5	9.0	10.0	8.7	9.4	8.7	7.4	7.9
27	7.7	7.3	7.5	9.4	8.2	8.9	9.7	8.8	9.3	8.8	7.4	8.0
28	8.3	7.5	7.8	9.6	8.2	9.0	9.6	7.9	8.8	9.1	7.1	8.0
29	8.0	7.0	7.5	9.5	8.2	9.0	9.5	7.7	8.7	8.5	6.9	7.6
30	7.4	7.1	---	9.6	8.1	8.9	9.6	7.5	8.7	8.8	7.3	7.9
31	---	---	---	9.8	8.3	9.2	9.7	7.8	8.9	---	---	---
MONTH	---	---	---	---	---	---	10.0	6.6	8.2	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.0	18.0	11.0	10.5	10.5	4.5	4.0	4.0	6.0	5.0	5.5
2	19.5	16.0	17.5	11.5	10.5	11.0	4.5	3.5	4.0	6.0	4.5	5.5
3	19.5	16.0	17.5	13.0	11.5	12.0	5.0	3.5	4.5	4.5	2.5	4.0
4	19.5	16.5	18.0	11.5	11.0	11.5	5.0	4.5	4.5	4.0	3.0	3.5
5	18.5	17.0	17.5	11.5	10.5	11.0	5.0	4.5	5.0	3.5	3.0	3.5
6	19.0	17.0	18.5	11.0	10.0	10.5	7.0	5.0	5.5	3.5	2.5	3.0
7	18.5	16.5	17.5	12.5	10.0	11.0	6.5	5.0	6.0	2.5	1.0	1.5
8	17.0	15.0	16.0	12.0	10.5	11.5	5.0	3.5	4.5	1.0	0.5	0.5
9	16.5	14.5	16.0	11.5	10.5	11.5	4.0	3.5	4.0	0.5	0.0	0.5
10	16.0	14.0	---	11.0	9.0	10.0	5.0	4.0	4.5	0.5	0.0	---
11	16.0	13.0	14.5	9.0	9.0	---	5.0	4.5	5.0	0.5	0.0	0.5
12	15.0	14.0	14.5	9.0	8.5	9.0	4.5	4.0	4.5	0.5	0.0	0.5
13	15.0	13.0	14.0	9.0	8.5	9.0	4.5	4.0	4.5	1.0	0.5	0.5
14	15.0	12.5	14.0	9.0	8.5	9.0	4.5	3.5	4.0	1.5	0.5	1.0
15	14.5	13.0	13.5	8.5	7.5	8.0	4.0	3.5	4.0	2.0	1.0	1.5
16	13.0	12.0	12.5	7.5	6.0	6.5	4.0	2.5	3.5	3.0	2.0	2.5
17	14.5	12.5	13.0	6.5	6.0	6.0	2.5	0.5	1.5	3.5	2.5	3.0
18	13.0	11.5	12.5	6.0	5.5	5.5	2.5	0.5	1.5	4.0	3.0	3.5
19	11.5	9.5	10.5	5.5	5.0	5.5	---	---	---	4.5	3.0	4.0
20	11.0	8.5	9.5	6.0	5.5	5.5	---	---	---	4.5	3.0	4.0
21	10.5	8.5	9.5	5.5	5.0	5.5	---	---	---	3.5	3.0	3.0
22	11.0	9.5	10.0	5.0	4.5	4.5	---	---	---	4.0	2.5	3.0
23	12.5	10.0	11.0	4.5	4.0	4.0	---	---	---	4.5	3.5	4.0
24	14.0	11.5	12.5	4.0	3.0	3.5	---	---	---	4.5	3.0	4.0
25	13.0	11.5	12.5	4.0	3.0	3.5	---	---	---	3.0	2.5	3.0
26	13.0	10.0	11.5	6.0	4.0	5.0	---	---	---	3.5	2.0	3.0
27	12.5	10.5	11.5	6.0	5.5	6.0	---	---	---	3.5	3.0	3.0
28	15.0	11.5	12.5	6.0	5.0	5.5	5.0	4.5	---	4.0	3.0	3.5
29	13.5	12.5	13.0	5.5	5.0	5.0	4.5	4.0	4.0	4.0	2.5	3.5
30	13.5	11.5	12.5	5.0	4.5	4.5	4.0	3.5	3.5	3.0	1.5	2.0
31	12.0	11.0	11.0	---	---	---	5.0	3.0	4.0	1.0	0.5	1.0
MONTH	19.5	8.5	14.0	13.0	3.0	7.5	---	---	---	6.0	0.0	2.5

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	5.5	4.0	5.0	10.0	10.0	10.0	14.0	12.0	13.0
2	3.5	1.0	---	6.5	4.5	5.5	10.0	9.5	10.0	15.0	13.5	14.5
3	3.5	2.5	3.0	6.5	6.0	6.0	9.5	9.0	9.5	15.0	15.0	---
4	3.0	2.5	3.0	7.5	6.0	6.5	9.0	8.5	8.5	---	---	---
5	3.0	2.5	---	8.0	7.0	7.5	8.5	7.5	8.0	14.0	13.5	---
6	---	---	---	8.0	7.5	7.5	8.0	7.5	8.0	15.0	13.0	14.0
7	4.0	3.5	---	7.5	7.0	7.5	8.5	7.5	8.0	16.0	14.0	14.5
8	4.0	2.5	3.5	7.5	7.0	7.0	8.5	8.0	8.5	15.0	14.0	15.0
9	4.0	2.5	---	8.0	7.0	7.5	9.5	8.0	8.5	16.0	14.5	15.0
10	---	---	---	8.5	7.0	8.0	9.5	9.0	9.0	17.5	15.5	16.0
11	---	---	---	8.0	7.5	8.0	9.0	8.0	8.5	17.5	16.5	17.0
12	1.5	1.0	---	8.5	8.0	8.0	8.0	7.0	8.0	17.0	15.5	16.0
13	1.5	0.0	1.0	10.0	8.0	9.0	8.0	7.0	7.5	15.5	14.5	15.0
14	2.0	1.0	1.5	9.5	9.0	9.5	8.5	7.0	8.0	14.5	14.0	14.5
15	3.0	2.0	2.5	9.5	9.0	9.0	9.5	8.0	9.0	14.0	13.5	13.5
16	3.0	1.5	2.5	9.5	9.0	9.0	11.0	9.0	10.0	14.5	13.0	13.5
17	1.5	0.0	0.5	10.5	9.5	10.0	12.0	10.5	11.5	14.5	13.5	14.0
18	0.5	0.0	0.0	10.0	7.5	8.5	12.0	12.0	---	14.0	13.0	13.5
19	1.5	0.0	0.5	7.5	6.5	7.0	14.5	13.0	14.0	13.0	12.5	13.0
20	3.0	1.5	2.0	6.5	6.0	6.5	15.5	14.0	15.0	12.5	12.0	12.0
21	4.0	3.0	3.0	6.0	5.5	6.0	16.0	14.5	15.5	12.5	12.0	12.0
22	4.5	3.0	3.5	6.0	5.5	5.5	17.5	15.0	16.5	---	---	---
23	4.0	3.0	3.5	6.5	5.0	6.0	18.0	17.0	17.5	---	---	---
24	4.0	3.0	3.5	7.5	5.5	6.5	18.5	16.5	17.5	13.5	13.0	---
25	4.0	3.0	3.5	7.5	6.5	7.0	17.5	17.0	17.0	13.5	13.0	13.0
26	5.0	4.0	4.5	8.0	7.5	7.5	16.0	14.0	15.0	14.0	13.0	13.5
27	5.0	4.0	4.5	9.5	7.5	8.5	14.0	13.0	13.5	14.0	13.5	13.5
28	5.5	3.5	4.5	10.0	8.5	9.5	13.0	12.0	12.5	14.5	13.5	14.0
29	---	---	---	10.0	9.0	9.5	12.5	11.5	12.0	16.5	14.5	15.5
30	---	---	---	10.0	9.0	9.5	12.5	11.0	12.0	17.5	15.5	16.5
31	---	---	---	10.0	9.0	9.5	---	---	---	18.0	16.5	17.0
MONTH	5.5	0.0	---	10.5	4.0	7.5	18.5	7.0	11.5	18.0	12.0	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	18.0	---	---	---	27.5	26.0	27.0	30.0	27.5	28.5
2	19.5	17.5	18.5	---	---	---	26.0	23.5	25.0	29.5	27.0	28.5
3	19.5	18.5	19.0	---	---	---	25.0	23.5	24.5	28.0	27.5	---
4	21.0	18.5	19.5	---	---	---	25.0	24.0	24.5	---	---	---
5	20.5	20.0	---	---	---	---	25.5	24.0	24.5	---	---	---
6	---	---	---	---	---	---	25.5	24.0	25.0	---	---	---
7	---	---	---	---	---	---	26.5	24.5	25.5	---	---	---
8	---	---	---	---	---	---	27.5	25.5	26.5	---	---	---
9	---	---	---	25.5	24.5	---	28.0	25.0	27.0	---	---	---
10	---	---	---	26.0	24.5	25.0	29.0	27.0	28.0	---	---	---
11	25.0	24.0	---	25.5	24.0	25.0	29.0	27.5	28.0	---	---	---
12	26.0	24.5	25.0	24.0	23.0	23.5	28.0	26.5	27.5	---	---	---
13	26.0	25.0	25.5	24.5	22.5	23.5	28.0	25.5	27.0	23.5	21.5	---
14	25.5	24.0	25.0	26.0	23.0	24.5	26.5	25.5	26.0	21.5	20.0	21.0
15	25.0	23.5	24.0	24.5	23.0	24.0	26.5	25.0	25.5	21.0	19.5	20.0
16	24.0	23.0	23.0	25.0	22.5	23.5	25.5	24.5	25.0	21.0	19.5	20.5
17	23.5	22.0	22.5	25.0	23.5	24.5	25.5	24.5	25.0	21.0	19.5	20.0
18	22.0	20.5	21.0	26.5	24.0	25.0	25.0	23.0	24.0	21.0	19.0	19.5
19	20.5	20.0	20.5	27.0	25.0	25.5	24.5	22.5	23.5	20.5	18.0	19.5
20	23.0	20.5	21.5	27.0	25.0	26.0	24.0	23.0	23.5	20.0	19.0	19.5
21	23.5	22.0	22.5	26.0	24.5	25.5	24.0	22.5	23.0	19.5	18.0	18.5
22	22.5	22.0	---	25.0	24.0	24.5	23.5	22.5	23.0	19.0	17.5	18.5
23	23.5	21.5	22.5	26.0	24.0	25.0	24.5	21.5	24.5	20.5	18.0	19.0
24	24.0	22.5	23.0	27.0	24.5	25.5	25.0	22.0	23.5	20.5	18.5	19.5
25	23.0	22.0	22.5	28.5	25.0	26.0	25.5	22.5	24.0	19.5	18.5	19.0
26	23.5	22.0	22.5	28.5	24.0	25.5	27.0	23.5	25.0	20.0	17.5	18.5
27	24.0	23.0	23.5	27.5	25.0	26.0	27.0	24.5	26.0	20.5	18.0	19.5
28	25.0	23.5	24.0	28.5	25.0	27.0	28.5	25.0	27.0	21.5	19.0	20.0
29	24.0	21.0	23.0	28.5	26.5	27.5	29.5	26.5	28.0	21.5	20.0	20.5
30	21.0	20.5	---	28.0	25.5	27.0	30.5	27.5	28.5	21.0	19.0	20.0
31	---	---	---	29.0	25.0	27.5	31.0	28.0	29.0	---	---	---
MONTH	26.0	17.0	---	---	---	---	31.0	21.5	25.5	---	---	---

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE

LOCATION.--Lat 40°04'55", long 74°51'58", Bucks County, at center of river 1,300 ft (396 m) upstream from bridge on a line from the Pennsylvania bank through channel station -79.2 to Lehigh range light on New Jersey bank.

DRAINAGE AREA.--7,163 mi^2 (18,508 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1973.
Water temperatures: March 1953 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 340 micromhos June 4; minimum, 83 micromhos Nov. 11.
Dissolved oxygen: Maximum, 15.3 mg/l Jan. 9; minimum, 1.4 mg/l Sept. 4.
pH: Maximum, 7.5 Jan. 22-25; minimum, 4.1 Dec. 26 and Mar. 7.
Water temperatures: Maximum, 29.5°C Sept. 2-5; minimum, 1.0°C Jan. 8-15.

Period of record:
Specific conductance (1968-73): Maximum, 397 micromhos Nov. 1, 1970; minimum, 54 micromhos June 5, 1968.
Dissolved oxygen (1962-73): Maximum, 15.3 mg/l Jan. 9, 1973; minimum, 0.0 mg/l on several days in 1963, 1965, and 1967.
pH (1968-73): Maximum, 8.4 Jan. 15, 1972; minimum, 4.1 Dec. 26, 1972 and Mar. 7, 1973.
Water temperatures: Maximum, 31.0°C July 9, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Water quality recorder located at raw-water intake of Bristol Filtration Plant, 1.2 miles upstream from sampling site. Samples collected approximately 3 ft from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV. 02...	.1	19	7.0	12	3.1	56	0	2.0	46	0	35
DEC. 21...	6.4	20	5.0	10	2.1	24	0	2.0	20	0	37
JAN. 03...	6.4	19	5.6	11	1.9	21	0	3.0	17	0	40

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
NOV. 02...	15	.3	2.1	.15	137	119	76	30	225	7.7	5
DEC. 21...	14	.3	3.0	.16	125	107	71	51	189	7.3	--
JAN. 03...	15	.3	3.1	.18	140	110	70	52	204	7.0	5

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	222	214	218	174	113	119	321	158	168
2	---	---	---	219	209	215	126	114	119	166	129	152
3	---	---	---	220	209	218	134	124	129	130	108	119
4	---	---	---	221	215	219	134	129	131	122	109	113
5	---	---	---	220	210	215	138	128	131	134	114	123
6	---	---	---	214	201	207	144	129	136	143	133	139
7	---	---	---	231	199	205	142	137	139	149	137	142
8	---	---	---	203	178	195	280	111	139	155	141	148
9	---	---	---	176	114	140	112	98	103	165	152	157
10	---	---	---	148	92	122	214	105	114	174	160	166
11	---	---	---	93	83	88	116	110	113	189	174	181
12	---	---	---	97	89	93	115	109	113	200	191	196
13	---	---	---	105	95	99	122	112	116	205	197	200
14	---	---	---	116	103	109	122	115	119	203	199	201
15	---	---	---	119	109	113	128	119	123	210	201	204
16	---	---	---	120	91	105	136	122	127	214	204	206
17	---	---	---	96	91	93	144	125	136	218	202	207
18	234	226	---	100	92	97	145	139	143	216	206	213
19	231	227	229	107	97	103	144	139	142	224	211	216
20	238	229	232	119	103	111	150	141	146	221	216	218
21	240	229	235	126	115	119	157	147	152	221	209	216
22	246	233	238	126	118	122	156	153	154	217	211	214
23	241	237	240	120	111	115	152	140	145	236	205	213
24	253	218	---	119	114	116	145	129	136	203	193	197
25	244	218	232	136	118	120	171	127	136	209	164	186
26	235	215	231	132	120	125	315	142	153	159	144	148
27	233	226	230	141	130	135	223	147	154	154	144	148
28	230	218	225	140	115	128	175	151	156	154	148	152
29	225	206	221	116	106	110	163	155	158	181	126	152
30	224	221	222	117	106	111	163	154	157	174	139	154
31	226	218	222	---	---	---	168	156	160	179	149	166
MONTH	---	---	---	231	83	139	315	98	135	321	108	175

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	181	175	177	245	237	240	---	---	---	---	---	---
2	181	174	178	250	237	243	174	166	---	---	---	---
3	182	141	160	252	243	248	166	153	---	173	169	---
4	180	133	159	250	246	248	155	129	143	173	167	170
5	146	109	132	255	246	251	133	123	128	180	171	174
6	155	115	132	255	247	251	131	113	121	181	175	178
7	147	133	140	254	242	250	113	108	---	183	179	181
8	147	141	144	244	212	229	119	112	115	183	177	180
9	160	145	152	212	197	203	131	119	124	184	178	181
10	167	152	160	200	193	196	137	130	133	190	185	188
11	168	159	163	202	175	187	140	133	137	191	185	188
12	177	162	170	187	155	162	140	125	132	185	139	172
13	186	176	180	166	154	159	133	127	130	182	119	131
14	192	182	185	170	161	166	140	131	134	129	116	118
15	204	186	197	174	166	171	143	134	137	123	116	119
16	205	197	201	178	171	174	149	137	143	126	118	123
17	214	200	208	179	172	175	160	145	150	131	123	128
18	212	210	211	178	159	170	167	153	158	136	130	132
19	213	209	211	161	150	157	169	159	163	133	122	130
20	219	208	213	147	129	137	172	164	168	125	106	112
21	222	215	219	138	126	132	172	169	---	108	101	104
22	229	224	---	147	131	139	---	---	---	113	104	108
23	233	226	229	152	140	146	180	168	---	113	106	109
24	233	224	227	155	149	151	182	178	179	112	107	109
25	229	223	225	156	152	154	181	175	177	118	110	114
26	235	212	226	173	149	161	182	170	177	191	113	123
27	235	224	229	169	162	---	177	170	174	139	114	123
28	249	229	234	---	---	---	172	167	169	255	113	129
29	---	---	---	---	---	---	172	163	167	143	125	134
30	---	---	---	---	---	---	---	---	---	157	140	150
31	---	---	---	---	---	---	---	---	---	157	148	152
MONTH	249	109	187	255	126	188	182	108	---	255	101	141

DELAWARE RIVER BASIN

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	149	145	147	89	84	87	240	234	237	250	191	220
2	158	146	151	98	87	91	238	224	232	236	200	216
3	163	153	155	107	96	101	225	157	199	242	191	216
4	340	156	166	119	108	113	185	160	175	220	207	215
5	167	161	163	132	120	126	155	131	143	242	199	216
6	170	166	167	131	122	124	136	130	132	246	189	214
7	177	170	173	126	123	125	138	130	134	246	194	221
8	173	164	169	132	126	130	146	136	140	255	198	225
9	165	135	150	137	131	133	156	143	149	254	198	---
10	132	121	124	147	135	141	171	151	160	254	201	---
11	150	121	126	153	141	145	178	160	169	254	203	---
12	143	127	134	153	146	150	184	168	177	262	210	239
13	153	140	146	158	152	155	189	179	184	264	218	240
14	160	151	155	166	157	161	194	184	189	252	219	240
15	163	157	160	179	161	168	195	189	192	263	213	238
16	170	161	165	190	171	179	197	192	195	266	219	242
17	170	167	169	202	182	191	203	195	198	254	226	237
18	174	169	171	207	193	201	205	199	203	242	230	236
19	180	172	176	210	201	206	207	203	205	238	227	234
20	190	177	183	211	208	209	205	193	---	233	216	225
21	195	184	190	211	204	207	---	---	---	221	206	214
22	210	194	201	209	202	204	---	---	---	216	210	213
23	208	201	204	208	204	205	---	---	---	216	212	214
24	201	196	199	207	203	205	---	---	---	216	211	213
25	202	197	201	212	204	207	---	---	---	215	206	211
26	200	186	193	214	207	209	---	---	---	212	204	207
27	195	187	190	250	209	214	---	---	---	213	206	209
28	198	190	195	224	213	217	204	190	---	211	208	210
29	210	166	192	226	216	221	227	179	204	211	206	209
30	182	89	134	237	221	229	240	188	218	210	200	204
31	---	---	---	240	229	235	244	187	222	---	---	---
MONTH	340	89	168	250	84	171	---	---	---	266	189	221

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.5	6.9	7.2	11.0	10.6	10.9	---	---	---
2	6.1	4.1	---	7.0	6.5	6.8	11.2	10.9	11.1	---	---	---
3	5.9	5.0	5.4	7.2	6.5	6.8	12.0	10.3	11.3	---	---	---
4	5.5	4.0	4.6	7.3	6.5	6.9	12.8	12.0	12.6	---	---	---
5	4.9	3.9	4.3	7.4	6.5	7.0	12.6	12.3	12.5	---	---	---
6	5.3	4.0	4.5	7.8	6.7	7.4	12.5	12.0	12.3	---	---	---
7	6.6	4.5	5.4	7.9	7.3	7.5	12.4	11.8	12.1	---	---	---
8	6.7	5.8	6.2	7.5	7.2	---	12.8	11.9	12.3	15.2	15.0	---
9	6.4	5.8	6.2	---	---	---	13.1	12.7	13.0	15.3	14.9	15.1
10	6.5	5.5	5.9	---	---	---	13.2	12.6	12.9	15.2	15.0	15.1
11	6.3	5.2	5.7	---	---	---	13.0	12.7	12.8	15.1	14.6	14.8
12	6.5	5.3	5.8	---	---	---	13.0	12.8	12.9	14.6	14.3	14.4
13	6.7	5.5	6.1	10.5	9.8	---	13.0	12.7	12.8	14.3	13.9	14.1
14	6.8	5.6	6.2	10.0	9.6	9.9	13.0	12.7	12.9	14.0	13.3	13.8
15	7.5	6.4	6.8	10.0	9.5	9.8	13.1	12.3	12.8	13.8	13.5	13.6
16	7.7	6.8	7.2	10.8	9.9	10.4	12.7	12.1	12.4	13.7	13.5	13.6
17	7.8	7.2	7.4	11.1	10.6	10.9	13.3	12.8	13.0	13.5	13.3	13.4
18	7.9	7.2	7.5	11.1	10.8	11.0	13.6	13.1	13.4	13.4	12.9	13.1
19	8.2	7.3	7.7	11.3	11.1	11.2	13.9	13.5	13.7	13.0	12.6	12.8
20	8.1	7.3	7.8	11.8	10.8	11.2	13.9	13.6	13.8	12.7	12.5	12.6
21	8.3	7.3	7.8	12.0	11.8	11.9	13.9	13.2	13.6	12.7	12.3	12.5
22	8.2	7.3	7.8	12.7	11.9	12.2	13.2	12.5	12.8	12.6	12.3	12.5
23	8.2	7.3	7.7	12.8	12.3	12.6	12.7	12.3	12.5	13.0	12.4	12.7
24	8.8	7.3	---	12.9	12.5	12.7	12.8	12.4	12.6	13.1	12.7	12.9
25	9.0	7.3	8.1	12.9	12.7	12.8	13.0	12.7	12.8	12.8	12.3	12.7
26	8.9	7.5	8.2	12.7	12.2	12.5	13.0	12.7	---	13.4	13.0	13.2
27	8.8	7.8	8.3	12.6	10.9	11.5	---	---	---	13.2	13.0	13.1
28	8.6	7.8	8.2	10.9	10.7	10.8	---	---	---	13.1	12.9	13.0
29	8.2	7.8	7.9	11.1	10.8	11.0	---	---	---	13.0	12.6	12.7
30	8.1	7.5	7.8	11.2	10.9	11.0	---	---	---	13.0	12.6	12.8
31	7.9	7.5	7.7	---	---	---	---	---	---	13.5	12.7	13.2
MONTH	9.0	3.9	6.8	12.9	6.5	10.1	13.9	10.3	12.6	---	---	---

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.9	13.4	13.6	13.2	13.0	13.1	---	---	---	---	---	---
2	14.1	13.6	13.8	13.1	12.6	12.9	10.1	9.8	---	---	---	---
3	13.8	12.6	13.1	12.9	12.6	12.7	10.2	9.8	---	9.0	8.6	---
4	13.3	12.7	13.0	12.7	12.4	12.5	10.5	10.1	10.3	8.7	8.2	8.5
5	13.5	13.0	13.3	12.5	11.8	12.2	10.8	10.4	10.6	8.2	7.9	8.1
6	13.5	13.1	13.3	12.0	11.7	11.8	11.2	10.7	11.0	8.0	7.6	7.8
7	13.4	13.2	13.3	11.8	11.4	11.6	11.3	11.1	---	9.0	8.1	8.6
8	13.5	13.2	13.3	11.5	11.1	11.3	11.2	11.0	11.1	9.4	8.6	9.0
9	13.4	13.1	13.3	11.4	11.1	11.2	11.2	10.8	11.0	9.1	8.6	8.9
10	13.6	13.2	13.5	11.5	11.1	11.3	11.0	10.6	10.8	8.8	8.2	8.6
11	14.1	13.6	13.9	11.5	11.2	11.3	10.7	10.4	10.5	8.3	7.9	8.1
12	14.3	14.0	14.1	11.4	10.9	11.1	11.0	10.5	10.8	8.2	7.8	8.0
13	14.6	14.2	14.4	10.9	10.6	10.7	11.2	10.9	11.0	8.5	7.8	8.3
14	14.5	14.3	14.4	10.7	10.3	10.5	11.1	10.9	11.0	9.3	8.4	9.0
15	14.4	14.0	14.2	10.7	10.3	10.5	11.2	10.9	11.0	9.4	9.1	9.2
16	14.1	13.4	13.8	10.5	10.0	10.3	11.1	10.7	10.9	10.0	9.3	9.7
17	13.6	13.2	13.4	10.2	10.0	10.1	10.9	10.1	10.6	10.1	9.5	9.9
18	13.8	13.3	13.5	10.3	9.9	10.2	10.4	9.7	10.0	10.1	9.5	9.9
19	14.1	13.4	13.8	10.8	10.0	10.4	9.8	9.4	9.6	9.6	9.2	9.4
20	14.3	13.9	14.1	11.1	10.6	10.9	9.5	9.2	9.4	10.0	9.4	9.8
21	14.1	13.8	14.0	11.4	11.0	11.2	9.3	9.2	---	10.3	9.8	10.1
22	13.6	13.3	---	11.6	11.3	11.5	---	---	---	10.4	10.1	10.2
23	13.5	13.0	13.2	11.7	11.3	11.5	8.8	8.3	---	10.3	9.9	10.2
24	13.0	12.9	13.0	11.8	11.4	11.6	8.4	7.9	8.2	10.1	9.9	10.0
25	13.1	12.9	13.0	11.7	11.4	11.6	8.4	7.9	8.1	10.1	9.8	10.0
26	13.2	12.8	13.0	11.7	11.1	11.4	8.3	8.0	8.1	10.1	9.7	10.0
27	13.4	12.9	13.2	11.3	10.9	---	8.6	8.0	8.4	10.1	9.8	10.0
28	13.3	13.1	13.2	---	---	---	8.8	8.4	8.6	9.8	8.8	9.2
29	---	---	---	---	---	---	9.2	8.6	8.9	9.4	8.5	8.9
30	---	---	---	---	---	---	---	---	---	9.5	8.9	9.3
31	---	---	---	---	---	---	---	---	---	9.3	8.8	9.1
MONTH	14.6	12.6	13.5	13.2	9.9	11.4	11.3	7.9	---	10.4	7.6	9.2

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.6	8.9	9.3	7.3	6.2	6.9	4.8	4.2	4.5	4.0	2.9	3.4
2	8.9	8.6	8.7	7.3	7.0	7.1	4.6	3.9	4.2	3.9	2.2	2.9
3	8.9	8.4	8.6	7.2	6.6	7.0	5.0	4.1	4.6	4.1	1.8	2.6
4	8.6	8.0	8.4	6.8	6.4	6.7	5.6	4.8	5.1	3.7	1.4	---
5	8.4	7.7	8.0	6.9	6.3	6.5	6.3	5.2	5.6	---	---	---
6	8.0	6.9	7.5	6.7	6.4	6.6	6.5	5.5	5.9	---	---	---
7	7.2	6.6	6.8	6.7	6.4	6.5	6.0	5.5	5.7	---	---	---
8	6.9	6.5	6.7	6.8	6.3	6.6	6.0	4.9	5.5	---	---	---
9	6.8	6.3	6.5	7.3	6.2	6.8	5.6	4.5	5.2	---	---	---
10	6.6	6.2	6.4	7.5	7.0	7.2	5.4	4.3	4.9	---	---	---
11	6.9	6.0	6.6	7.2	6.7	6.8	5.0	4.3	4.6	---	---	---
12	6.7	6.4	6.5	6.8	6.4	6.6	5.1	4.1	4.5	4.0	3.2	---
13	6.5	6.2	6.4	6.6	6.0	6.3	4.7	4.1	4.4	3.9	3.2	3.5
14	6.8	6.1	6.4	6.6	6.0	6.3	5.0	4.1	4.6	4.4	3.1	3.6
15	7.1	6.3	6.7	6.4	5.8	6.1	4.4	3.9	4.1	4.9	3.9	4.3
16	6.8	6.4	6.6	6.4	5.8	6.0	4.0	3.8	---	5.2	4.1	4.6
17	6.5	6.0	6.3	5.9	5.6	5.7	---	---	---	5.5	4.5	5.0
18	6.2	5.9	---	5.9	5.2	5.5	---	---	---	6.1	4.9	5.6
19	6.4	5.7	---	6.2	4.8	5.6	---	---	---	6.2	5.4	5.8
20	6.2	5.4	5.8	6.0	5.0	5.5	---	---	---	6.1	5.4	5.8
21	5.9	5.2	5.5	5.7	4.9	5.2	---	---	---	6.7	5.5	6.0
22	5.9	5.2	5.5	5.4	4.5	5.1	---	---	---	6.9	5.7	6.2
23	5.8	4.8	5.3	6.2	4.3	5.7	---	---	---	6.9	6.3	6.5
24	4.8	4.1	4.4	6.2	5.2	5.6	---	---	---	6.8	6.1	6.4
25	5.9	4.5	5.1	5.6	4.8	5.2	---	---	---	6.8	6.0	6.4
26	5.8	4.9	5.4	5.4	4.2	5.0	---	---	---	6.7	6.1	6.4
27	5.2	4.5	4.8	4.4	4.0	4.2	---	---	---	6.5	6.0	6.2
28	5.2	4.4	4.8	4.4	3.8	4.1	6.3	5.0	---	6.3	5.8	---
29	5.7	4.5	5.1	4.5	3.9	4.2	6.1	4.5	4.9	6.4	4.0	5.9
30	6.5	5.7	6.1	4.9	4.1	4.5	5.3	3.9	4.3	6.7	5.6	6.1
31	---	---	---	5.3	4.1	4.7	4.7	3.4	3.9	---	---	---
MONTH	9.6	4.1	6.4	7.5	3.8	5.9	---	---	---	---	---	---

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	6.6	6.9	6.8	6.9	6.9	5.7	6.9	7.2	7.1	7.2
2	6.9	6.6	6.8	6.8	6.8	6.8	6.9	6.9	6.9	7.4	6.9	7.2
3	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.9	6.9	7.3	7.1	7.2
4	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.9	6.9	7.2	7.1	7.2
5	7.0	6.8	6.9	6.9	6.8	6.9	7.0	6.8	7.0	7.3	7.1	7.2
6	7.0	6.9	6.9	6.9	6.8	6.9	7.0	6.4	7.0	7.3	7.2	7.3
7	7.1	6.9	7.0	6.9	5.5	6.8	7.0	6.9	7.0	7.3	7.3	7.3
8	7.1	7.0	7.0	7.0	6.9	6.9	7.1	4.7	7.0	7.3	7.1	7.2
9	7.0	7.0	7.0	7.0	6.6	6.8	7.0	6.8	6.9	7.2	7.1	7.1
10	7.1	6.9	7.0	7.0	6.7	6.8	6.9	4.8	6.8	7.2	7.1	7.2
11	7.0	6.9	6.9	6.7	6.8	6.6	7.0	6.7	6.9	7.2	7.1	7.2
12	7.0	6.9	7.0	6.7	6.6	6.6	7.0	6.9	7.0	7.2	7.2	7.2
13	7.1	6.9	7.0	6.7	6.6	6.7	7.0	6.9	6.9	7.3	7.2	7.2
14	7.1	6.9	7.0	6.8	6.7	6.8	7.0	6.9	7.0	7.3	7.2	7.3
15	7.2	7.0	7.1	6.8	6.7	6.8	7.1	6.9	7.0	7.4	7.3	7.4
16	7.1	7.1	7.1	6.9	6.7	6.8	7.1	6.9	7.0	7.4	7.4	7.4
17	7.2	7.1	7.1	6.8	6.7	6.7	7.1	7.0	7.0	7.4	7.1	7.4
18	7.2	7.1	7.1	6.8	6.7	6.7	7.1	7.0	7.1	7.4	7.4	7.4
19	7.2	7.1	7.1	6.8	6.7	6.8	7.1	7.1	7.1	7.4	7.3	7.4
20	7.2	7.1	7.2	6.9	6.7	6.8	7.2	7.2	7.2	7.4	7.4	7.4
21	7.2	7.1	7.1	6.9	6.8	6.9	7.3	7.2	7.2	7.4	7.4	7.4
22	7.1	7.1	7.1	7.0	6.9	6.9	7.3	7.2	7.3	7.5	7.4	7.5
23	7.2	7.1	7.1	6.9	6.9	6.9	7.3	7.2	7.3	7.5	7.4	7.5
24	7.0	6.9	---	7.0	6.9	6.9	7.4	7.2	7.3	7.5	7.2	7.4
25	7.1	6.9	7.0	7.0	6.4	7.0	7.3	6.2	7.2	7.5	7.3	7.4
26	7.1	6.9	7.0	7.0	6.7	7.0	7.3	4.1	7.0	7.3	7.2	7.3
27	7.0	6.9	7.0	7.0	7.0	7.0	7.2	5.0	7.1	7.2	6.6	7.2
28	7.0	6.9	7.0	7.0	6.9	7.0	7.2	7.0	7.2	7.3	7.2	7.2
29	7.0	6.9	7.0	6.9	6.8	6.9	7.2	7.1	7.2	7.2	6.9	7.1
30	7.0	6.9	7.0	6.9	6.8	6.9	7.2	7.0	7.2	7.1	7.0	7.0
31	7.0	6.9	6.9	---	---	---	7.2	7.1	7.2	7.2	7.0	7.1
MONTH	7.2	6.6	7.0	7.0	5.5	6.8	7.4	4.1	7.1	7.5	6.6	7.3

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	7.1	7.2	7.4	7.3	7.3	---	---	---	---	---	---
2	7.2	7.2	7.2	7.3	7.3	7.3	7.1	7.0	---	---	---	---
3	7.2	6.9	7.0	7.3	7.3	7.3	7.1	7.0	---	7.1	7.1	---
4	7.2	7.0	7.1	7.3	7.3	7.3	7.1	6.9	7.0	7.1	7.1	7.1
5	7.2	7.0	7.1	7.4	7.3	7.3	7.0	6.9	6.9	7.1	7.0	7.1
6	7.1	7.1	7.1	7.4	7.3	7.3	7.0	6.8	6.9	7.1	7.0	7.1
7	7.2	7.1	7.1	7.5	7.3	7.4	6.8	6.8	---	7.1	7.0	7.1
8	7.1	7.1	7.1	7.4	7.2	7.3	6.9	6.7	6.8	7.2	7.1	7.1
9	7.2	7.0	7.1	7.3	7.1	7.2	7.0	6.9	7.0	7.2	7.1	7.2
10	7.2	7.1	7.2	7.2	7.1	7.2	7.1	7.0	7.0	7.2	7.2	7.2
11	7.3	7.2	7.2	7.3	7.2	7.2	7.1	7.0	7.1	7.2	7.1	7.1
12	7.2	7.1	7.2	7.2	7.1	7.2	7.1	7.0	7.0	7.1	7.0	7.1
13	7.2	7.2	7.2	7.1	7.0	7.1	7.1	7.0	7.0	7.0	5.5	6.8
14	7.3	7.2	7.2	7.2	7.1	7.1	7.1	7.0	7.0	6.8	6.7	6.8
15	7.3	7.1	7.2	7.2	7.1	7.1	7.1	7.0	7.1	6.8	6.8	6.8
16	7.3	7.1	7.2	7.2	7.1	7.1	7.1	7.0	7.1	6.9	6.8	6.8
17	7.3	7.2	7.3	7.2	7.1	7.1	7.1	7.0	7.1	7.0	6.8	6.9
18	7.3	7.2	7.3	7.2	7.1	7.2	7.1	7.0	7.0	7.0	6.9	7.0
19	7.3	7.2	7.2	7.2	7.1	7.1	7.2	7.0	7.0	7.0	6.9	6.9
20	7.3	7.2	7.3	7.1	6.9	7.1	7.2	7.0	7.1	7.0	6.7	6.9
21	7.3	7.3	7.3	7.1	7.0	7.1	7.1	7.1	---	6.9	6.8	6.8
22	7.4	7.4	---	7.1	7.0	7.1	---	---	---	6.9	6.6	6.9
23	7.4	7.3	7.4	7.2	7.1	7.1	7.3	7.1	---	6.9	6.8	6.9
24	7.3	7.2	7.3	7.2	7.1	7.2	7.3	7.2	7.2	6.9	6.8	6.8
25	7.3	7.2	7.3	7.2	7.2	7.2	7.3	7.2	7.3	6.9	6.8	6.9
26	7.3	7.2	7.3	7.2	7.1	7.2	7.2	7.1	7.2	7.0	4.9	6.8
27	7.3	7.2	7.3	7.2	7.1	---	7.1	7.0	7.1	7.1	6.3	7.0
28	7.3	7.3	7.3	---	---	---	7.1	7.1	7.1	7.1	4.7	7.0
29	---	---	---	---	---	---	7.2	7.1	7.1	7.1	6.9	7.0
30	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
31	---	---	---	---	---	---	---	---	---	7.1	6.9	7.0
MONTH	7.4	6.9	7.2	7.5	6.9	7.2	7.3	6.7	---	7.2	4.7	7.0

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.9	6.9	6.8	6.5	6.6	7.2	7.1	7.1	7.0	6.9	6.9
2	7.0	6.9	6.9	6.8	6.7	6.8	7.3	7.1	7.2	6.9	6.8	6.9
3	7.0	6.9	7.0	6.9	6.8	6.9	7.3	6.9	7.1	6.9	6.9	6.9
4	7.1	4.9	6.9	6.9	6.9	6.9	7.1	6.9	7.0	6.9	6.8	6.9
5	7.1	7.0	7.1	7.0	6.9	7.0	7.0	6.7	6.9	6.9	6.8	6.8
6	7.3	7.0	7.1	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.8
7	7.2	7.0	7.1	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.8
8	7.1	7.0	7.0	7.0	7.0	7.0	7.0	6.8	6.9	6.9	6.8	6.8
9	7.1	6.9	7.0	7.2	7.0	7.1	7.0	6.9	6.9	6.9	6.8	---
10	6.9	6.7	6.8	7.2	7.1	7.1	7.1	6.9	7.0	6.9	6.8	---
11	6.7	6.7	6.7	7.2	7.1	7.1	7.1	6.9	7.0	6.9	6.8	---
12	6.8	6.7	6.7	7.2	7.1	7.1	7.1	6.9	7.0	6.9	6.8	6.9
13	6.9	6.7	6.8	7.2	6.9	7.1	7.1	6.9	7.0	6.9	6.8	6.9
14	6.9	6.8	6.9	7.2	7.1	7.1	7.1	6.9	7.0	6.9	6.8	6.9
15	7.0	6.8	6.9	7.2	7.0	7.1	7.0	6.9	7.0	7.0	6.9	6.9
16	7.0	6.8	6.9	7.2	7.1	7.2	7.0	6.9	7.0	7.0	6.9	6.9
17	7.0	6.9	7.0	7.2	7.1	7.2	7.0	6.9	7.0	7.0	6.9	6.9
18	6.9	6.9	6.9	7.2	7.1	7.2	7.1	6.9	7.0	6.9	6.9	6.9
19	7.1	6.8	7.0	7.3	7.1	7.2	7.1	7.0	7.1	6.9	6.8	6.9
20	7.1	7.1	7.1	7.3	7.2	7.2	7.1	7.0	---	6.9	6.8	6.9
21	7.1	7.1	7.1	7.3	7.2	7.3	---	---	---	6.9	6.8	6.8
22	7.2	7.1	7.1	7.3	7.2	7.3	---	---	---	6.9	6.8	6.9
23	7.2	7.0	7.1	7.3	7.2	7.3	---	---	---	6.9	6.8	6.9
24	7.0	6.9	7.0	7.3	7.2	7.2	---	---	---	6.9	6.8	6.9
25	7.1	6.9	7.0	7.2	7.1	7.1	---	---	---	6.9	6.9	6.9
26	7.1	7.0	7.1	7.2	7.1	7.1	---	---	---	7.0	6.9	6.9
27	7.0	7.0	7.0	7.2	5.6	7.1	---	---	---	6.9	6.9	6.9
28	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.0	---	6.9	6.9	6.9
29	7.1	7.0	7.0	7.2	7.0	7.1	7.1	6.9	7.0	6.9	6.8	6.9
30	7.1	6.7	7.0	7.3	7.1	7.2	7.1	6.9	7.0	6.9	6.9	6.9
31	---	---	---	7.3	7.1	7.2	7.1	6.9	6.9	---	---	---
MONTH	7.3	4.9	7.0	7.3	5.6	7.1	---	---	---	7.0	6.8	6.9

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.0	14.0	13.5	14.0	5.5	5.0	5.0	5.0	4.5	4.5
2	20.5	20.0	20.0	14.0	13.5	14.0	5.0	4.5	5.0	5.5	5.0	5.0
3	20.5	20.0	20.0	14.0	13.5	14.0	5.0	4.5	4.5	5.0	4.0	4.5
4	20.5	19.5	20.0	14.0	13.5	13.5	5.0	5.0	5.0	4.0	4.0	4.0
5	20.0	19.5	20.0	13.5	13.5	13.5	5.5	5.0	5.0	4.0	3.5	4.0
6	20.0	19.5	20.0	13.5	13.0	13.5	6.0	5.5	5.5	4.0	3.0	3.5
7	20.0	18.5	19.0	13.5	13.0	13.0	6.0	5.5	6.0	3.0	2.0	3.0
8	18.5	18.0	18.5	13.5	13.0	13.5	6.0	5.0	5.5	2.0	1.0	1.5
9	18.0	17.0	18.0	13.0	12.0	12.0	5.0	4.5	5.0	1.5	1.0	1.0
10	18.0	16.5	17.0	12.0	10.5	11.0	5.0	4.5	5.0	1.0	1.0	1.0
11	17.0	16.5	16.5	11.0	10.5	10.5	5.0	5.0	5.0	1.0	1.0	1.0
12	17.0	16.0	16.5	10.5	10.5	10.5	5.5	5.0	5.0	1.5	1.0	1.0
13	16.5	16.0	16.0	10.5	10.0	10.0	5.5	5.0	5.0	1.5	1.0	1.0
14	16.5	15.5	16.0	10.0	9.5	10.0	5.0	5.0	5.0	1.5	1.0	1.0
15	16.0	15.5	15.5	9.5	9.0	9.5	5.0	4.5	5.0	2.0	1.0	1.5
16	15.5	15.0	15.5	9.0	8.0	8.5	5.0	4.5	4.5	2.0	1.5	2.0
17	15.5	15.0	15.0	8.0	7.0	8.0	4.5	3.5	4.0	3.0	2.0	2.5
18	15.5	15.0	15.0	9.0	7.0	8.0	3.5	1.5	2.5	4.0	3.0	3.0
19	15.0	14.0	14.5	8.0	7.0	7.5	2.0	1.5	1.5	4.5	3.5	4.0
20	14.5	13.5	14.0	8.0	7.0	7.5	3.0	1.5	2.0	4.5	4.0	4.5
21	14.0	13.5	14.0	8.0	7.0	7.5	3.5	2.0	3.0	4.5	4.0	4.5
22	14.0	13.0	13.5	7.0	7.0	7.0	4.0	3.0	3.5	4.5	4.0	4.0
23	14.0	13.0	13.5	6.5	6.5	6.5	4.5	4.0	4.0	4.5	4.0	4.0
24	14.0	13.0	---	6.5	6.0	6.0	4.5	4.0	4.0	4.5	4.0	4.0
25	14.0	13.0	13.5	6.0	6.0	6.0	4.0	4.0	4.0	4.5	4.0	4.5
26	13.5	13.0	13.0	7.0	6.5	6.5	4.0	4.0	4.0	4.0	3.5	3.5
27	13.5	13.0	13.0	7.0	5.0	6.0	4.5	4.0	4.5	4.0	3.5	3.5
28	14.0	13.5	13.5	6.0	5.5	6.0	4.5	4.5	4.5	4.0	4.0	4.0
29	14.0	13.5	14.0	6.0	5.5	5.5	4.5	4.5	4.5	4.5	4.0	4.0
30	14.0	14.0	14.0	5.5	5.0	5.5	4.5	4.0	4.0	4.0	3.0	3.5
31	14.0	14.0	14.0	---	---	---	4.5	4.0	4.0	3.0	2.0	2.5
MONTH	20.5	13.0	16.0	14.0	5.0	9.5	6.0	1.5	4.5	5.5	1.0	3.0

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N.J. BRIDGE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	2.0	2.0	5.0	4.5	4.5	---	---	---	---	---	---
2	3.0	2.0	2.5	5.0	4.5	4.5	11.0	11.0	---	---	---	---
3	4.5	3.0	4.0	5.5	5.0	5.0	11.0	10.5	---	15.5	15.0	---
4	4.0	3.5	3.5	5.5	5.0	5.5	10.5	10.0	10.5	16.0	15.5	15.5
5	3.5	3.0	3.5	7.0	5.5	6.0	10.0	9.5	9.5	15.5	15.5	15.5
6	4.0	3.5	3.5	7.0	6.5	7.0	9.5	9.0	9.0	15.5	15.0	15.5
7	4.0	3.5	4.0	8.0	7.0	7.5	9.0	9.0	---	15.5	15.0	15.0
8	4.0	4.0	4.0	8.5	8.0	8.0	9.5	9.0	9.5	15.5	15.0	15.5
9	4.0	3.5	4.0	8.5	8.0	8.0	9.5	8.5	9.0	16.0	15.5	15.5
10	3.5	3.0	3.5	8.5	8.0	8.5	9.5	9.0	9.0	16.5	15.5	16.0
11	3.0	2.0	2.5	8.5	8.5	8.5	9.0	8.5	9.0	17.0	16.5	16.5
12	2.0	2.0	2.0	8.5	8.5	8.5	8.5	8.0	8.5	18.0	17.0	17.0
13	2.0	1.5	2.0	9.0	8.5	8.5	8.5	8.0	8.0	16.5	16.0	16.5
14	2.0	1.5	2.0	9.0	8.5	9.0	9.0	8.0	8.5	16.0	15.5	15.5
15	3.0	2.0	2.5	9.0	9.0	9.0	9.0	8.5	9.0	15.5	15.0	15.0
16	3.5	3.0	3.5	9.5	9.0	9.0	10.0	9.0	9.5	15.0	14.5	14.5
17	3.5	3.0	3.0	9.5	9.0	9.5	11.0	10.0	10.0	15.0	14.5	15.0
18	3.0	1.5	2.0	9.5	8.5	9.0	11.5	10.5	11.0	15.0	14.5	15.0
19	2.0	1.5	1.5	8.5	7.0	8.0	13.0	11.5	12.0	14.5	14.0	14.5
20	2.0	1.5	1.5	7.0	6.5	7.0	13.5	12.0	13.0	14.0	13.0	13.5
21	3.0	1.5	2.0	7.0	6.5	6.5	13.5	13.0	---	13.0	13.0	13.0
22	4.0	3.5	---	6.5	6.0	6.5	---	---	---	14.0	13.0	13.5
23	4.0	3.5	4.0	6.5	6.0	6.0	18.5	16.0	---	14.5	14.0	14.0
24	4.0	4.0	4.0	6.5	6.0	6.0	18.5	18.0	18.0	14.5	14.0	14.0
25	4.5	4.0	4.0	7.0	6.5	6.5	18.0	16.5	17.5	14.0	14.0	14.0
26	4.5	4.0	4.0	8.0	7.0	7.5	17.0	15.5	16.0	14.0	14.0	14.0
27	4.5	4.0	4.0	8.5	8.0	---	16.0	15.0	15.5	14.5	14.0	14.0
28	4.5	4.0	4.0	---	---	---	15.5	14.5	15.0	15.0	14.0	14.5
29	---	---	---	---	---	---	15.0	14.5	14.5	16.0	15.0	15.5
30	---	---	---	---	---	---	---	---	---	17.0	15.5	16.5
31	---	---	---	---	---	---	---	---	---	18.0	16.5	17.5
MONTH	4.5	1.5	3.0	9.5	4.5	7.5	18.5	8.0	---	18.0	13.0	15.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.0	18.0	20.0	19.5	19.5	28.0	28.0	28.0	29.0	28.0	28.5
2	19.5	18.5	18.5	20.5	20.0	20.0	28.0	28.0	28.0	29.5	28.5	29.0
3	19.5	19.0	19.0	21.5	20.5	21.0	28.0	25.0	26.5	29.5	29.0	29.0
4	20.0	19.5	19.5	21.5	21.5	21.5	25.5	25.0	25.0	29.5	29.0	29.0
5	21.5	20.0	20.5	23.0	21.5	22.0	25.5	24.5	25.0	29.5	29.0	29.0
6	22.0	21.0	21.5	23.0	22.0	22.5	25.5	25.0	25.0	29.0	29.0	29.0
7	23.0	22.0	22.5	23.5	22.0	23.0	25.5	25.0	25.0	29.0	28.5	28.5
8	23.5	23.0	23.0	24.0	23.0	23.5	26.0	25.0	25.5	28.5	28.0	28.0
9	23.5	23.0	23.0	24.5	23.5	24.0	26.5	25.5	26.0	28.0	27.0	---
10	24.0	23.0	23.5	25.5	24.5	25.0	27.0	26.0	26.5	27.0	26.5	---
11	24.0	23.5	23.5	25.5	25.5	25.5	28.0	26.5	27.0	26.5	26.0	---
12	24.5	24.0	24.0	25.5	25.0	25.5	28.5	27.0	27.5	26.5	25.5	26.0
13	25.5	24.5	25.0	25.0	24.5	25.0	28.5	28.0	28.0	26.0	25.0	25.5
14	25.5	25.0	25.0	25.0	24.0	24.5	28.5	27.0	28.0	26.0	24.0	25.0
15	25.5	24.5	25.0	25.0	24.5	24.5	28.0	26.5	27.5	24.5	24.0	24.0
16	25.0	24.0	24.5	25.0	24.5	24.5	28.0	26.5	27.0	24.0	23.0	23.5
17	24.5	23.5	24.0	25.5	25.0	25.0	27.0	26.0	26.5	23.5	22.0	23.0
18	24.0	23.0	23.5	25.5	25.0	25.0	26.5	25.5	26.0	23.0	22.0	22.0
19	23.5	22.0	23.0	26.0	25.5	25.5	25.5	25.0	25.5	22.0	21.5	21.5
20	23.0	22.0	22.5	26.0	25.5	25.5	25.5	25.0	---	22.0	21.5	21.5
21	23.0	22.0	22.5	26.5	26.0	26.0	---	---	---	21.5	21.0	21.0
22	23.0	22.0	22.0	26.5	26.0	26.0	---	---	---	21.0	20.5	21.0
23	23.5	22.0	23.0	26.5	26.0	26.5	---	---	---	21.0	20.5	21.0
24	24.0	23.0	23.0	26.5	25.5	26.0	---	---	---	21.5	20.5	21.0
25	24.0	23.0	23.0	26.0	25.5	26.0	---	---	---	21.0	20.5	21.0
26	24.0	23.5	23.5	26.0	25.5	26.0	---	---	---	21.0	20.5	21.0
27	24.0	23.0	23.5	26.5	26.0	26.0	---	---	---	21.0	20.5	21.0
28	24.0	23.5	23.5	27.0	26.0	26.5	26.0	25.5	---	21.5	21.0	21.0
29	24.0	23.5	24.0	27.0	26.5	26.5	27.0	26.0	26.0	21.5	21.0	21.0
30	24.0	20.0	21.5	28.0	26.5	27.0	28.0	26.5	27.0	21.5	21.0	21.0
31	---	---	---	28.5	27.0	27.5	28.5	27.0	28.0	---	---	---
MONTH	25.5	17.0	22.5	28.5	19.5	24.5	---	---	---	29.5	20.5	24.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.

LOCATION.--Lat 40°01'57", long 74°59'46", Philadelphia County, water-quality recorder (40°02'05", 74°59'57") located in inactive building at Torresdale Filter Plant, 1.7 miles (2.7 km) downstream from Poquessing Creek.

DRAINAGE AREA.--7,781 mi^2 (20,200 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1973.
Water temperatures: October 1955 to September 1957, November 1960 to September 1973.

EXTREMES.

Period of record:
Specific conductance (1960-73): Maximum, 609 micromhos Jan. 18, 1970; minimum, 71 micromhos July 24, 1970.
Dissolved oxygen (1961-73): Maximum, 14.5 mg/l Feb. 4-5, 1964; minimum, 0.0 mg/l on many days during 1962 and 1965.
pH (1968-73): Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969.
Water temperatures: Maximum, 29.0°C on many days in 1956, 1963, 1966, and 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	252	237	243	218	211	---	---	---	---	---	---	---
2	258	237	246	---	---	---	---	---	---	---	---	---
3	257	239	244	---	---	---	---	---	---	---	---	---
4	252	233	241	---	---	---	---	---	---	---	---	---
5	253	235	243	---	---	---	---	---	---	---	---	---
6	260	239	248	---	---	---	---	---	---	---	---	---
7	248	145	219	---	---	---	---	---	---	---	---	---
8	227	216	222	---	---	---	---	---	---	165	154	---
9	223	212	217	---	---	---	---	---	---	272	154	173
10	216	209	213	---	---	---	---	---	---	253	161	183
11	215	209	212	---	---	---	---	---	---	231	167	183
12	215	210	212	---	---	---	---	---	---	240	174	193
13	217	209	213	193	108	---	---	---	---	255	188	204
14	220	208	214	168	104	121	---	---	---	263	197	215
15	221	211	214	149	121	127	---	---	---	263	204	---
16	218	200	208	157	121	131	---	---	---	---	---	---
17	225	200	206	183	110	126	---	---	---	---	---	---
18	227	203	208	156	99	117	---	---	---	---	---	---
19	228	203	207	184	99	122	246	186	---	---	---	---
20	215	204	207	156	115	123	237	191	201	---	---	---
21	218	205	210	136	127	---	278	194	212	---	---	---
22	221	208	211	---	---	---	229	204	214	261	227	---
23	220	208	212	---	---	---	243	196	211	312	230	241
24	227	209	214	---	---	---	236	194	---	239	214	---
25	225	213	217	---	---	---	---	---	---	279	202	218
26	226	215	219	---	---	---	262	147	---	274	179	208
27	226	216	221	---	---	---	257	151	175	327	160	200
28	241	216	225	---	---	---	311	152	179	164	151	158
29	228	216	---	---	---	---	248	156	---	166	132	154
30	216	214	---	---	---	---	---	---	---	181	152	---
31	217	211	214	---	---	---	---	---	---	---	---	---
MONTH	260	145	220	---	---	---	---	---	---	---	---	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	257	203	216	225	139	164	213	184	194
2	---	---	---	245	205	215	191	148	166	223	181	193
3	---	---	---	252	208	218	200	168	176	321	180	197
4	---	---	---	288	218	234	187	135	161	219	180	188
5	---	---	---	238	220	227	184	123	137	203	179	185
6	---	---	---	247	219	230	165	121	---	213	180	186
7	---	---	---	251	219	231	---	---	---	230	183	193
8	---	---	---	284	220	234	---	---	---	227	188	197
9	---	---	---	262	204	223	197	119	---	280	188	202
10	---	---	---	224	181	202	177	122	135	219	192	197
11	---	---	---	232	174	188	170	129	143	252	194	205
12	---	---	---	305	171	194	191	99	146	237	200	208
13	---	---	---	215	155	171	191	126	142	214	162	188
14	---	---	---	229	147	163	204	99	140	172	119	145
15	---	---	---	241	147	164	204	99	147	189	119	133
16	232	201	---	226	151	163	206	99	151	207	121	134
17	240	210	218	225	155	165	211	143	156	356	121	143
18	281	211	222	203	157	164	192	149	158	183	128	141
19	272	213	225	199	143	160	226	155	167	176	135	143
20	268	191	210	185	133	146	195	163	171	180	99	134
21	243	191	200	183	119	132	228	167	176	166	103	120
22	273	190	202	166	117	126	282	171	186	141	103	110
23	255	194	207	196	119	132	253	177	190	185	108	118
24	238	197	208	212	127	141	241	178	191	192	108	121
25	240	202	210	245	129	156	223	178	187	160	112	123
26	236	199	211	256	129	147	195	175	183	188	118	133
27	262	202	212	175	143	151	222	185	191	213	130	145
28	281	202	216	198	145	154	187	164	181	224	141	155
29	---	---	---	226	143	161	202	177	184	186	145	155
30	---	---	---	218	149	165	221	181	193	195	146	155
31	---	---	---	224	153	166	---	---	---	195	150	162
MONTH	---	---	---	305	117	179	282	99	166	356	99	161

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	209	156	167	130	85	98	242	224	232	224	201	207
2	195	153	162	186	89	---	253	196	232	237	208	213
3	195	154	163	125	95	104	235	208	219	242	212	217
4	185	161	167	253	110	126	216	179	203	232	214	218
5	201	167	172	180	118	130	193	174	183	228	199	218
6	232	171	178	193	99	140	206	168	---	235	209	219
7	226	176	186	160	129	136	---	---	---	224	212	217
8	255	180	193	177	129	140	---	---	---	225	211	215
9	235	185	---	202	129	146	---	---	---	225	213	216
10	---	---	---	203	129	145	---	---	---	230	213	217
11	---	---	---	205	129	143	329	146	---	233	215	220
12	172	129	---	154	136	141	177	151	157	232	219	223
13	180	133	143	157	141	146	172	154	162	231	215	222
14	179	141	151	184	146	154	177	159	165	247	218	228
15	177	150	158	227	151	161	181	166	174	227	213	221
16	184	157	166	175	155	162	186	175	179	229	219	224
17	193	167	173	189	162	169	195	180	185	233	225	228
18	198	170	178	199	169	177	204	187	193	240	229	234
19	190	179	183	227	180	190	208	191	195	235	229	232
20	203	185	190	223	190	201	215	193	201	236	229	232
21	209	187	194	250	172	207	223	200	207	237	227	230
22	251	192	202	211	205	208	224	202	209	238	219	230
23	214	200	204	222	209	214	215	191	202	243	233	239
24	223	205	213	226	210	216	210	186	197	240	229	235
25	236	219	223	234	210	217	214	186	195	253	223	235
26	232	218	223	235	210	218	208	186	196	249	222	232
27	238	199	222	232	212	220	221	191	199	249	219	228
28	244	213	221	246	215	222	279	191	204	240	216	225
29	232	151	201	236	215	222	231	193	202	238	215	224
30	202	129	156	235	216	222	216	196	201	235	210	216
31	---	---	---	246	219	228	230	199	206	---	---	---
MONTH	255	129	184	253	85	173	329	146	196	253	199	224

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.6	3.4	4.6	6.4	5.6	---	---	---	---	---	---	---
2	6.1	3.7	4.7	---	---	---	---	---	---	---	---	---
3	5.9	3.6	5.0	---	---	---	---	---	---	---	---	---
4	6.5	3.9	5.3	---	---	---	---	---	---	---	---	---
5	6.2	3.9	5.2	---	---	---	---	---	---	---	---	---
6	6.8	3.7	5.2	---	---	---	---	---	---	---	---	---
7	8.0	4.6	5.9	---	---	---	---	---	---	---	---	---
8	6.3	5.6	5.9	---	---	---	---	---	---	---	---	---
9	6.9	5.2	5.8	---	---	---	---	---	---	---	---	---
10	6.1	5.0	5.5	---	---	---	---	---	---	---	---	---
11	5.9	4.7	5.1	---	---	---	---	---	---	---	---	---
12	6.0	4.6	5.2	---	---	---	---	---	---	---	---	---
13	6.0	4.6	5.2	10.3	8.7	---	---	---	---	---	---	---
14	6.8	3.6	5.1	9.8	8.7	9.2	---	---	---	---	---	---
15	6.7	5.1	5.7	10.8	9.3	9.9	---	---	---	---	---	---
16	7.6	5.4	6.2	10.9	9.6	10.4	---	---	---	---	---	---
17	7.4	6.1	6.7	10.7	9.8	10.4	---	---	---	---	---	---
18	7.3	6.0	6.6	11.4	10.0	10.9	---	---	---	---	---	---
19	8.0	6.3	7.1	11.4	10.8	11.2	15.8	14.6	---	---	---	---
20	8.0	6.5	7.1	12.3	10.0	11.6	16.2	13.7	15.2	---	---	---
21	7.7	5.4	6.4	12.0	11.7	---	16.2	10.4	14.3	---	---	---
22	6.0	4.7	5.2	---	---	---	14.2	10.8	12.7	---	---	---
23	5.7	4.4	5.1	---	---	---	12.0	10.1	11.4	13.5	12.8	---
24	7.0	4.6	6.1	---	---	---	11.3	10.5	---	14.6	12.7	---
25	6.9	5.6	6.3	---	---	---	---	---	---	15.0	13.4	14.4
26	7.0	5.7	6.4	---	---	---	12.4	10.1	---	14.3	12.9	13.8
27	7.2	5.5	6.4	---	---	---	12.3	10.4	11.7	14.9	11.9	13.8
28	8.2	5.7	6.7	---	---	---	12.1	10.0	11.5	14.6	12.0	13.8
29	7.1	6.3	---	---	---	---	11.9	11.5	---	14.3	11.7	12.9
30	7.2	5.7	---	---	---	---	---	---	---	15.1	13.3	---
31	7.2	5.8	6.2	---	---	---	---	---	---	---	---	---
MONTH	8.2	3.4	5.8	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.2	11.2	11.6	8.5	5.3	7.2	---	---	---
2	---	---	---	11.6	10.2	10.9	8.4	6.8	7.9	---	---	---
3	---	---	---	10.8	10.0	10.5	8.6	7.7	8.3	8.7	7.7	---
4	---	---	---	10.2	10.0	---	9.1	7.5	8.5	8.6	7.6	8.2
5	---	---	---	11.9	11.0	---	10.5	8.4	9.5	8.8	7.8	8.3
6	---	---	---	12.0	11.2	11.5	10.9	10.2	---	8.5	7.5	8.0
7	---	---	---	11.2	10.5	10.9	---	---	---	8.5	7.2	8.0
8	---	---	---	10.6	9.4	10.2	---	---	---	8.5	6.9	7.8
9	---	---	---	10.3	9.4	10.0	11.0	9.8	---	8.3	6.2	7.6
10	---	---	---	10.7	10.0	10.4	10.7	9.4	10.2	7.9	7.0	7.5
11	---	---	---	11.2	10.3	10.8	10.7	10.2	10.6	7.6	6.4	7.1
12	---	---	---	11.2	9.5	10.5	11.0	10.6	10.9	---	---	---
13	---	---	---	10.8	9.6	10.2	11.6	10.9	11.3	---	---	---
14	---	---	---	10.4	9.4	10.0	11.8	11.0	11.4	8.5	7.6	---
15	---	---	---	10.2	9.3	9.8	11.7	10.4	11.1	8.7	7.7	8.3
16	---	---	---	9.8	8.9	9.4	11.4	9.4	10.5	9.2	8.1	8.7
17	---	---	---	9.5	8.6	9.0	10.5	8.9	10.0	9.4	8.4	9.0
18	---	---	---	10.5	9.2	9.8	10.1	9.1	9.6	9.8	8.9	9.5
19	---	---	---	10.7	9.8	10.2	9.4	7.9	9.0	9.9	9.0	9.7
20	13.2	10.8	---	11.2	9.9	10.5	9.0	8.6	8.8	10.2	9.4	9.9
21	13.0	10.2	11.9	12.1	10.6	11.3	8.9	8.4	8.6	9.8	9.3	9.5
22	12.7	9.5	11.7	12.4	11.4	11.9	8.7	8.3	8.6	9.8	9.3	9.6
23	12.6	9.8	11.9	12.8	11.6	12.4	8.6	8.0	8.3	9.6	8.9	9.3
24	12.4	10.4	11.5	12.9	10.5	12.1	8.1	6.1	7.2	9.4	8.8	9.2
25	10.9	10.8	---	12.2	10.4	11.6	6.9	5.7	6.3	9.5	8.9	9.2
26	12.1	11.3	---	11.8	9.0	10.4	6.8	5.7	6.2	9.8	8.9	9.4
27	12.1	11.6	11.9	10.8	7.8	9.7	7.1	4.5	5.9	9.8	9.2	9.5
28	12.6	11.4	11.9	9.2	7.1	8.2	7.3	5.3	6.4	9.6	9.0	9.4
29	---	---	---	7.9	6.4	7.1	7.2	6.0	---	9.5	8.6	9.1
30	---	---	---	6.5	5.6	6.2	---	---	---	9.2	8.1	8.8
31	---	---	---	6.3	5.2	5.7	---	---	---	8.4	7.4	8.0
MONTH	---	---	---	12.9	5.2	10.1	11.8	4.5	8.8	10.2	6.2	8.7

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.3	7.6	6.0	4.4	5.1	5.0	1.6	3.3	4.2	2.1	3.0
2	7.8	7.0	7.5	7.0	5.9	---	5.6	0.7	3.5	4.3	2.1	3.0
3	7.5	6.6	7.2	7.1	6.4	6.9	4.8	0.3	3.6	4.7	2.3	3.2
4	7.7	6.2	7.2	7.0	6.4	6.7	4.2	3.3	3.8	5.5	2.8	3.4
5	7.7	6.2	7.0	6.8	6.1	6.4	5.0	3.5	4.1	5.8	2.6	3.9
6	7.8	6.2	7.0	6.7	6.0	6.4	4.8	3.9	---	5.8	3.4	4.2
7	7.8	6.3	7.0	6.6	5.7	6.2	---	---	---	6.3	2.8	4.3
8	7.1	6.0	6.6	6.4	5.6	6.1	---	---	---	5.7	3.1	4.6
9	6.2	5.3	---	6.3	5.5	5.9	---	---	---	5.7	3.8	4.9
10	---	---	---	6.9	5.8	6.2	---	---	---	5.5	3.6	4.5
11	---	---	---	6.8	5.5	6.4	---	---	---	5.2	2.2	4.0
12	5.6	4.7	---	6.5	6.0	---	---	---	---	5.5	2.7	4.0
13	5.4	4.0	4.9	---	---	---	---	---	---	5.4	2.3	4.0
14	5.5	3.7	4.8	---	---	---	5.2	4.3	---	4.9	2.0	3.5
15	5.7	3.2	4.9	---	---	---	4.6	2.9	4.0	5.3	3.6	4.0
16	5.5	3.1	4.8	5.9	4.4	---	4.8	2.5	3.8	4.6	3.1	3.6
17	5.2	3.6	4.6	5.7	3.6	4.9	4.5	2.1	3.5	4.0	2.7	3.3
18	5.6	2.8	4.7	5.9	3.4	4.8	4.1	2.5	3.4	5.9	3.5	4.3
19	5.7	3.6	4.8	5.9	3.4	4.9	4.4	2.7	3.4	5.8	3.7	4.6
20	5.5	3.2	4.5	7.3	3.4	5.1	5.0	2.5	3.5	6.0	3.6	4.7
21	5.1	2.4	4.2	6.2	3.9	5.2	6.1	2.9	4.3	6.0	3.7	5.0
22	5.4	3.1	4.2	6.2	4.5	5.2	5.8	3.0	4.6	6.7	4.2	5.3
23	5.2	2.8	4.1	6.0	4.0	5.0	5.4	3.4	4.4	6.3	4.9	5.6
24	5.0	3.3	4.3	5.8	2.9	4.7	5.5	2.9	4.3	6.6	4.5	5.5
25	4.9	2.8	3.8	6.3	2.3	4.6	5.4	2.7	4.0	6.9	4.4	5.8
26	3.7	2.0	3.1	6.2	2.3	4.8	4.7	2.1	3.6	6.7	4.3	6.0
27	3.9	1.9	3.1	5.5	2.8	4.5	3.9	2.4	3.1	7.2	5.1	6.0
28	4.5	2.2	3.4	5.3	2.3	3.8	5.6	2.6	3.8	6.4	5.3	5.7
29	5.5	1.6	3.9	4.3	1.7	3.3	4.7	2.4	3.6	7.4	4.8	5.5
30	5.2	4.0	4.6	5.0	2.1	4.0	4.4	2.0	3.2	6.4	4.7	5.6
31	---	---	---	5.2	1.9	3.7	4.4	1.5	3.0	---	---	---
MONTH	7.9	1.6	5.1	7.3	1.7	5.2	---	---	---	7.4	2.0	4.5

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	7.0	6.9	---
9	---	---	---	---	---	---	---	---	---	7.0	6.9	7.0
10	---	---	---	---	---	---	---	---	---	7.0	6.9	7.0
11	---	---	---	---	---	---	---	---	---	7.0	6.9	7.0
12	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
13	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
14	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
15	---	---	---	---	---	---	---	---	---	7.0	7.0	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	7.4	7.4	---	---	---	---
20	---	---	---	---	---	---	7.4	7.3	7.4	---	---	---
21	---	---	---	---	---	---	7.5	7.3	7.4	---	---	---
22	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.1	---
23	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.0	7.2
24	---	---	---	---	---	---	7.4	7.3	---	7.1	7.0	---
25	---	---	---	---	---	---	---	---	---	7.1	7.0	7.1
26	---	---	---	---	---	---	7.4	7.3	---	7.1	7.0	7.0
27	---	---	---	---	---	---	7.4	7.2	7.3	7.1	6.9	7.0
28	---	---	---	---	---	---	7.4	7.3	7.3	6.9	6.8	6.9
29	---	---	---	---	---	---	7.3	7.2	---	6.9	6.7	6.9
30	---	---	---	---	---	---	---	---	---	6.9	6.9	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.9	6.9	6.9	7.0	6.9	7.0	---	---	---
2	---	---	---	6.9	6.9	6.9	7.0	6.8	6.9	---	---	---
3	---	---	---	7.0	6.9	6.9	7.0	6.9	6.9	6.8	6.6	---
4	---	---	---	7.0	6.9	6.9	7.0	6.7	6.9	6.8	6.6	6.7
5	---	---	---	7.2	6.9	7.1	6.8	6.8	6.8	7.0	6.7	6.9
6	---	---	---	7.3	7.2	7.2	6.9	6.7	---	7.2	6.9	7.1
7	---	---	---	7.3	7.2	7.3	---	---	---	7.2	7.0	7.1
8	---	---	---	7.3	7.2	7.3	---	---	---	7.1	6.9	7.0
9	---	---	---	7.3	7.2	7.3	7.0	6.9	---	7.2	6.9	7.0
10	---	---	---	7.3	7.2	7.3	7.1	7.0	7.0	7.0	6.9	7.0
11	---	---	---	7.3	7.2	7.3	7.2	7.1	7.1	7.1	6.9	7.0
12	---	---	---	7.3	7.1	7.2	7.2	7.1	7.2	7.1	7.0	7.0
13	---	---	---	7.2	7.1	7.2	7.2	7.1	7.2	7.0	6.9	7.0
14	---	---	---	7.3	7.1	7.2	7.2	7.1	7.2	6.9	6.6	6.7
15	---	---	---	7.3	7.1	7.2	7.2	7.0	7.1	6.8	6.6	6.7
16	---	---	---	7.2	7.1	7.2	7.2	7.1	---	6.9	6.6	6.7
17	---	---	---	7.4	7.1	7.3	7.1	6.9	---	7.0	6.6	6.7
18	---	---	---	7.4	7.4	7.4	6.9	6.8	6.9	6.9	6.7	6.8
19	---	---	---	7.4	7.3	7.3	6.9	6.8	6.8	6.9	6.8	6.9
20	---	---	---	7.3	7.2	7.2	6.9	6.8	6.9	6.9	6.7	6.8
21	---	---	---	7.3	7.2	7.2	7.0	6.8	6.9	7.2	6.8	7.0
22	---	---	---	7.3	7.1	7.2	7.0	6.8	6.9	7.3	7.1	7.2
23	---	---	---	7.3	7.2	7.2	7.1	6.8	6.9	7.2	7.0	7.2
24	---	---	---	7.3	7.2	7.2	6.9	6.8	6.9	7.2	7.1	7.2
25	---	---	---	7.3	7.2	7.2	6.9	6.7	6.8	7.2	7.1	7.2
26	6.9	6.9	---	7.3	7.0	7.1	6.9	6.7	6.8	7.2	7.1	7.2
27	6.9	6.9	6.9	7.2	7.1	7.2	7.0	6.7	6.8	7.2	7.1	7.2
28	6.9	6.9	6.9	7.3	7.1	7.2	6.8	6.7	---	7.3	7.2	7.2
29	---	---	---	7.2	7.0	7.1	---	---	---	7.5	7.2	7.3
30	---	---	---	7.1	6.9	7.0	---	---	---	7.3	7.2	7.3
31	---	---	---	7.1	6.9	7.0	---	---	---	7.4	7.2	7.3
MONTH	---	---	---	7.4	6.9	7.2	7.2	6.7	---	7.5	6.6	7.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.3	7.4	---	---	---	6.9	6.7	6.8	6.6	6.5	6.5
2	7.4	7.3	7.3	7.2	6.9	---	7.0	6.7	6.9	6.6	6.4	6.5
3	7.4	7.3	7.3	7.1	7.0	7.1	7.0	6.8	6.9	6.7	6.4	6.5
4	7.3	6.6	6.7	7.4	7.2	7.3	6.9	6.6	6.8	6.6	6.5	---
5	6.7	6.6	6.7	7.7	7.4	7.6	6.7	6.5	6.6	---	---	---
6	6.9	6.7	6.8	8.0	7.1	7.5	6.8	6.5	---	---	---	---
7	7.1	6.8	6.9	7.3	6.9	7.1	---	---	---	---	---	---
8	7.1	6.9	7.0	7.3	6.9	7.1	---	---	---	---	---	---
9	7.0	7.0	---	7.4	7.1	7.2	---	---	---	---	---	---
10	---	---	---	7.2	6.9	7.1	---	---	---	7.0	6.9	---
11	---	---	---	7.1	6.8	7.0	6.7	6.4	---	7.2	6.8	7.0
12	6.8	6.7	---	6.9	6.6	---	6.5	6.4	6.4	7.2	6.8	7.0
13	6.9	6.7	6.8	---	---	---	6.7	6.4	6.5	7.1	6.8	7.0
14	7.0	6.8	6.9	---	---	---	6.8	6.6	6.8	7.0	6.8	6.9
15	7.0	6.8	6.9	---	---	---	6.8	6.7	6.7	7.0	6.9	6.9
16	7.0	6.8	6.9	6.9	6.8	---	6.7	6.6	6.7	7.0	6.8	6.9
17	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.7	6.8	6.9	6.7	6.8
18	7.0	6.6	6.8	7.0	6.8	6.9	6.9	6.8	6.9	6.9	6.7	6.8
19	7.0	6.5	6.8	7.1	6.9	7.0	7.0	6.9	6.9	6.8	6.7	6.8
20	6.9	6.8	6.8	7.2	7.0	7.1	7.0	6.8	6.9	6.8	6.6	6.7
21	6.8	6.7	6.7	7.1	7.0	7.1	7.0	6.8	6.9	6.8	6.7	6.7
22	6.8	6.7	6.7	7.1	7.0	7.1	7.0	6.9	6.9	7.0	6.7	6.9
23	6.8	6.7	6.7	7.2	7.1	7.1	7.0	6.8	6.9	7.0	6.7	6.9
24	6.9	6.8	6.9	7.2	7.0	7.1	6.9	6.7	6.8	6.7	6.4	6.6
25	7.0	6.9	6.9	7.2	7.0	7.1	6.8	6.6	6.7	6.5	6.4	6.4
26	6.9	6.7	6.8	7.1	7.0	7.1	7.0	6.5	6.7	6.4	6.0	6.3
27	6.7	6.6	6.7	7.2	7.1	7.1	6.9	6.5	6.7	6.4	6.2	6.3
28	6.8	6.6	6.7	7.1	7.0	7.1	7.0	6.5	6.8	6.4	6.3	6.3
29	6.7	6.6	6.7	7.1	6.9	7.0	6.8	6.7	6.7	6.5	6.4	6.4
30	6.8	6.6	---	7.1	6.9	7.0	6.8	6.6	6.7	6.6	6.5	6.5
31	---	---	---	7.1	6.8	7.0	6.7	6.5	6.6	---	---	---
MONTH	7.4	6.5	6.9	8.0	6.6	---	7.0	6.4	6.8	7.2	6.0	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.5	15.0	15.0	---	---	---	---	---	---	---
2	21.5	21.0	21.5	---	---	---	---	---	---	---	---	---
3	21.5	21.0	21.5	---	---	---	---	---	---	---	---	---
4	21.5	21.0	21.5	---	---	---	---	---	---	---	---	---
5	21.5	21.0	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	2.0	1.5	---
9	---	---	---	---	---	---	---	---	---	1.5	0.5	1.5
10	---	---	---	---	---	---	---	---	---	1.5	0.5	1.0
11	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
12	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
13	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
14	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
15	---	---	---	---	---	---	---	---	---	0.5	0.5	---
16	15.5	15.5	---	---	---	---	---	---	---	---	---	---
17	15.5	15.5	15.5	---	---	---	---	---	---	---	---	---
18	15.5	15.5	15.5	---	---	---	---	---	---	---	---	---
19	15.5	15.0	15.0	---	---	---	2.0	1.5	---	---	---	---
20	15.5	15.0	15.0	---	---	---	2.0	1.5	1.5	---	---	---
21	15.5	15.0	15.0	---	---	---	5.0	1.5	2.5	---	---	---
22	15.5	15.0	15.0	---	---	---	4.5	3.0	3.5	5.5	4.5	---
23	15.5	15.0	15.0	---	---	---	5.0	4.0	4.0	6.5	5.0	5.5
24	15.5	14.5	15.0	---	---	---	5.0	4.5	---	5.5	5.0	---
25	15.5	15.0	15.0	---	---	---	---	---	---	5.5	4.5	5.0
26	15.5	15.0	15.0	---	---	---	5.5	4.0	---	6.0	5.0	5.0
27	15.5	15.0	15.0	---	---	---	5.0	4.0	4.5	6.5	4.5	5.0
28	15.5	15.0	15.0	---	---	---	5.5	4.5	4.5	5.0	4.5	4.5
29	15.5	15.0	---	---	---	---	4.5	4.0	---	6.0	3.5	4.5
30	15.5	15.0	---	---	---	---	---	---	---	4.0	3.0	---
31	15.0	15.0	15.0	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.0	4.0	4.5	13.0	10.5	11.0	14.5	13.0	13.5
2	---	---	---	5.5	4.5	5.0	11.5	10.5	11.0	14.5	13.5	14.0
3	---	---	---	5.5	4.5	5.5	11.0	10.5	10.5	16.5	14.5	15.0
4	---	---	---	6.5	5.5	6.0	10.5	9.5	10.0	15.5	14.0	14.5
5	---	---	---	6.5	6.0	6.0	10.0	8.5	9.5	14.5	14.0	14.5
6	---	---	---	6.5	4.5	6.0	8.5	8.0	---	16.0	14.0	15.0
7	---	---	---	8.0	6.5	7.0	---	---	---	18.0	15.0	15.5
8	---	---	---	9.0	7.0	8.0	---	---	---	15.5	15.0	15.5
9	---	---	---	10.5	8.0	9.0	11.0	8.5	---	16.5	14.5	15.5
10	---	---	---	10.0	9.0	9.0	10.0	9.0	9.0	18.5	15.5	16.0
11	---	---	---	9.5	9.0	9.0	9.0	8.5	8.5	18.5	16.5	16.5
12	---	---	---	11.0	9.0	9.5	8.5	8.0	8.5	18.0	16.5	17.0
13	---	---	---	10.5	9.5	10.0	8.5	7.0	8.0	18.0	16.5	17.0
14	---	---	---	10.0	9.5	9.5	9.0	7.0	8.0	17.0	16.0	16.5
15	---	---	---	10.0	9.5	9.5	9.5	8.0	8.5	16.0	15.0	15.5
16	2.0	1.0	---	10.5	9.5	10.0	10.5	8.5	9.5	15.5	15.0	15.0
17	1.5	0.5	1.0	11.5	10.0	11.0	11.5	9.5	10.0	16.5	15.0	15.5
18	1.5	0.5	1.0	10.5	8.5	9.5	13.0	10.5	11.0	15.0	14.0	14.5
19	1.5	0.5	1.0	9.5	8.5	9.0	14.5	11.5	12.5	15.5	14.0	14.5
20	4.0	1.0	2.0	9.5	8.0	8.5	14.5	13.0	13.5	14.5	13.5	14.0
21	4.0	2.0	2.5	8.5	7.0	7.5	15.5	13.5	14.0	14.0	12.0	13.5
22	4.0	2.0	2.5	7.0	6.5	6.5	18.0	14.5	15.5	14.5	12.0	13.0
23	4.5	2.0	3.0	8.0	6.0	6.5	18.5	15.5	16.5	14.0	13.5	13.5
24	4.0	2.0	3.0	9.5	6.0	7.0	18.5	16.0	17.0	14.0	13.5	13.5
25	5.0	3.0	4.0	9.0	6.5	7.0	18.0	16.5	17.0	13.5	13.5	13.5
26	5.0	4.0	4.5	9.0	7.0	8.0	17.0	15.0	16.5	14.0	13.5	13.5
27	4.5	4.0	4.5	10.5	8.0	8.5	16.5	14.5	16.0	13.5	13.5	13.5
28	4.5	3.5	4.0	10.0	8.5	9.0	15.5	13.5	15.0	15.5	13.5	14.0
29	---	---	---	10.5	9.0	9.5	14.5	11.5	13.5	16.0	14.5	15.0
30	---	---	---	10.5	10.0	10.0	14.0	13.0	13.5	17.0	15.5	16.0
31	---	---	---	11.0	10.5	10.5	---	---	---	18.5	16.5	17.5
MONTH	---	---	---	11.5	4.0	8.0	18.5	7.0	12.0	18.5	12.0	15.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.0	18.5	21.5	20.0	20.5	28.5	28.0	28.0	29.0	27.0	28.0
2	20.0	18.5	19.0	21.5	20.0	---	28.0	26.5	27.5	30.0	28.0	28.5
3	20.5	19.0	19.5	22.0	21.0	21.5	28.0	26.5	27.5	29.5	28.5	28.5
4	21.0	19.5	20.0	24.0	22.0	22.5	28.5	26.5	27.0	30.0	28.5	29.0
5	22.0	20.5	21.0	24.0	23.0	23.0	27.0	26.0	26.0	30.0	28.5	29.0
6	25.0	21.0	22.0	24.0	23.0	23.5	27.0	25.5	26.0	29.0	28.0	29.0
7	24.5	22.0	22.5	25.5	23.5	24.0	27.0	26.0	26.0	29.0	28.0	28.5
8	24.5	23.0	23.5	26.0	24.0	24.5	26.5	25.5	26.0	28.5	27.0	28.0
9	24.0	23.5	---	26.5	24.5	25.0	27.0	26.0	26.5	28.0	26.5	27.5
10	---	---	---	26.0	25.0	25.5	28.0	26.5	27.0	27.0	26.0	26.5
11	---	---	---	26.0	24.5	25.5	28.5	26.5	27.0	26.5	25.5	26.0
12	26.0	25.5	---	25.5	24.5	25.5	28.0	27.0	27.5	26.0	25.5	26.0
13	26.0	25.0	25.5	25.5	25.0	25.0	28.5	27.0	27.5	26.0	25.0	25.5
14	26.0	25.0	25.5	26.0	25.0	25.5	28.0	27.0	27.5	25.5	21.5	25.0
15	26.5	25.5	26.0	25.5	24.5	25.5	28.0	27.0	27.5	25.0	23.0	24.5
16	26.0	25.5	25.5	26.0	25.0	25.5	28.0	26.5	27.0	24.5	24.0	24.0
17	26.0	24.5	25.5	26.0	25.0	25.5	28.0	27.0	27.5	24.0	23.5	24.0
18	25.0	24.0	24.5	26.5	25.0	25.5	27.0	26.5	27.0	24.0	23.0	23.5
19	24.5	23.5	24.0	26.5	25.5	26.0	28.0	26.0	26.5	23.5	21.5	23.0
20	25.0	23.5	24.0	27.0	25.5	26.0	26.5	26.0	26.5	23.0	21.0	22.0
21	25.0	24.0	24.5	26.5	25.5	26.0	26.0	25.5	25.5	22.0	20.5	21.5
22	24.5	23.5	24.0	27.0	25.5	26.0	25.5	24.5	25.0	21.5	20.5	21.0
23	24.5	23.0	24.0	28.0	26.0	26.5	25.0	24.0	25.0	21.5	20.5	21.0
24	24.5	23.5	24.0	28.5	26.0	27.0	25.0	24.0	24.5	21.5	21.0	21.0
25	25.0	23.5	24.0	28.0	26.0	26.5	25.5	24.5	25.0	21.5	20.0	21.0
26	25.0	24.0	24.5	27.0	26.0	26.5	25.5	24.5	25.0	21.5	20.5	20.5
27	25.0	24.5	24.5	27.0	26.5	26.5	25.5	25.0	25.5	21.0	20.5	20.5
28	25.5	24.5	25.0	28.0	26.5	27.0	26.5	25.5	26.0	21.5	20.5	21.0
29	25.0	23.0	24.5	28.0	27.0	27.0	27.0	26.0	26.5	21.5	21.0	21.0
30	24.5	21.5	23.0	28.5	27.0	27.5	28.0	26.5	27.0	21.5	20.5	21.0
31	---	---	---	28.5	27.0	28.0	29.0	27.0	27.5	---	---	---
MONTH	26.5	18.0	23.5	28.5	20.0	25.5	29.0	24.0	26.5	30.0	20.0	24.5

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.

LOCATION.--Lat 39°57'11", long 75°08'05", Philadelphia County, at center of river on a line 200 ft (61 m) upstream of bridge from the north side of pier 12 north through channel station +14.3 to pierhead line on New Jersey side of river. Water-quality recorder (30°57'10", 75°08'18") located at river end of pier 11 north about 100 ft (30 m) downstream from bridge.

DRAINAGE AREA.--7,993 mi^2 (20,700 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1973.
Water temperatures: November 1960 to September 1973.

EXTREMES.

Period of record:
Specific conductance (1963-73): Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 80 micromhos Aug. 30, 1971.
Dissolved oxygen (1960-73): Maximum, 14.1 mg/l Dec. 14, 1962; minimum, 0.0 mg/l on many days.
pH (1968-73): Maximum, 7.6 Mar. 10-12, Aug. 28, 1973; minimum, 5.6 Feb. 27, 1970.
Water temperatures: Maximum, 31.0°C July 13-15, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Samples collected approximately 3 ft (1 m) from bottom. Records of discharge are given for 01463500 Delaware River at Trenton, N.J. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-O.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.											
02...	3.8	28	7.8	20	4.2	32	0	2.0	26	0	61
DEC.											
21...	4.7	13	4.1	9.1	1.6	24	0	.0	20	0	29
JAN.											
03...	5.8	19	5.2	10	1.8	30	0	2.0	25	0	31

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
NOV.											
02...	26	.4	4.2	.19	196	168	102	76	304	7.5	3
DEC.											
21...	13	.3	2.3	.19	99	87	49	30	169	8.0	5
JAN.											
03...	14	.3	2.7	.25	121	103	69	44	186	7.5	5

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	225	201	212	136	107	122	178	169	173
2	380	329	---	262	208	224	119	106	111	176	169	172
3	374	325	348	292	265	280	119	111	116	181	170	---
4	370	320	346	293	262	278	136	110	123	173	155	---
5	362	319	343	289	261	275	138	129	131	160	150	157
6	381	322	345	282	255	271	140	130	135	168	150	157
7	365	262	308	280	253	267	137	127	132	180	159	166
8	295	240	273	280	208	255	140	126	135	204	171	180
9	282	240	264	204	162	186	138	129	133	210	201	---
10	285	241	261	163	133	148	132	115	122	---	---	---
11	289	245	268	146	121	137	132	109	122	---	---	---
12	279	240	265	120	110	116	138	128	132	---	---	---
13	270	239	257	115	108	111	139	130	135	---	---	---
14	279	240	260	125	112	117	139	133	135	---	---	---
15	258	242	---	127	113	119	140	132	136	---	---	---
16	270	230	---	133	118	122	150	140	---	428	405	---
17	251	220	237	130	112	123	---	---	---	---	---	---
18	259	220	239	129	119	124	---	---	---	---	---	---
19	253	220	241	129	119	123	181	165	---	---	---	---
20	261	225	244	130	110	120	179	170	176	---	---	---
21	265	231	247	139	109	120	187	176	180	---	---	---
22	263	230	247	149	120	131	191	182	187	---	---	---
23	267	230	249	130	115	123	189	182	187	---	---	---
24	263	218	241	129	121	124	185	178	181	231	220	---
25	242	217	230	131	119	124	179	171	175	233	221	228
26	245	218	232	129	120	125	174	165	170	230	210	224
27	255	219	235	125	116	120	172	162	168	222	203	213
28	247	219	234	125	120	122	167	159	163	207	171	193
29	230	212	223	131	120	125	169	161	166	178	150	164
30	225	199	212	144	117	127	172	165	169	166	149	160
31	220	200	209	---	---	---	178	169	173	165	153	160
MONTH	381	199	261	293	108	162	191	106	149	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	168	155	160	270	259	266	198	184	193	---	---	---
2	170	159	164	271	259	267	196	180	190	---	---	---
3	170	158	164	277	260	269	191	184	---	---	---	---
4	168	147	158	277	265	273	---	---	---	---	---	---
5	168	141	159	278	252	267	---	---	---	---	---	---
6	155	130	147	272	252	264	146	131	---	---	---	---
7	149	130	---	280	261	270	142	136	138	221	207	---
8	151	135	142	280	261	274	143	134	137	219	208	---
9	158	148	150	279	261	270	138	131	135	244	210	217
10	155	145	---	270	255	264	154	136	147	220	209	216
11	---	---	---	263	240	253	157	143	151	220	211	216
12	---	---	---	257	228	242	158	145	151	219	211	---
13	180	170	---	235	210	226	157	147	151	---	---	---
14	182	170	177	230	213	224	157	148	151	201	177	---
15	192	180	---	237	200	221	155	149	152	193	161	176
16	212	187	196	222	197	210	160	139	151	175	152	162
17	210	197	202	217	180	203	160	152	156	161	143	153
18	209	199	204	197	180	184	167	155	160	143	130	137
19	213	204	209	193	169	182	169	161	164	133	127	130
20	219	208	213	195	166	186	174	165	170	145	134	139
21	226	211	219	189	162	178	190	172	179	162	144	152
22	230	219	225	189	160	175	213	191	202	164	144	154
23	232	220	228	178	160	169	223	214	---	155	148	152
24	233	224	230	178	162	169	---	---	---	158	153	156
25	233	220	229	172	160	167	---	---	---	161	149	154
26	261	228	245	178	164	171	---	---	---	155	150	152
27	268	249	259	182	167	175	---	---	---	155	147	150
28	269	258	263	200	178	185	---	---	---	156	148	152
29	---	---	---	209	182	192	---	---	---	168	154	161
30	---	---	---	214	185	195	---	---	---	173	165	170
31	---	---	---	198	188	193	---	---	---	178	132	170
MONTH	269	130	197	280	160	219	---	---	---	---	---	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	188	175	181	---	---	---	224	214	220	256	224	240
2	195	182	190	---	---	---	231	212	220	246	220	232
3	220	192	---	136	101	---	224	205	211	253	247	249
4	---	---	---	119	107	113	218	199	207	256	212	241
5	---	---	---	122	109	115	214	187	199	264	238	250
6	194	187	---	128	118	124	203	175	190	264	244	253
7	194	187	191	155	129	144	194	175	187	259	233	247
8	199	190	195	160	146	153	195	173	186	242	228	233
9	200	193	196	155	151	---	195	167	184	257	233	249
10	225	195	204	146	140	---	194	165	183	286	237	272
11	269	206	241	163	144	151	197	170	184	318	258	294
12	285	212	242	184	138	151	193	168	181	269	253	---
13	254	175	205	155	142	148	192	166	178	---	---	---
14	193	173	182	154	145	149	192	175	185	---	---	---
15	197	187	192	158	148	153	213	172	195	---	---	---
16	215	197	208	163	152	156	214	194	203	---	---	---
17	232	212	223	166	157	160	218	196	206	---	---	---
18	222	193	207	170	159	164	215	197	208	263	242	---
19	207	195	201	180	162	170	215	204	210	264	233	244
20	204	197	---	181	167	173	221	207	214	255	233	245
21	---	---	---	181	171	176	227	212	219	241	218	229
22	---	---	---	184	177	180	232	217	223	241	219	229
23	---	---	---	188	182	185	232	218	224	---	---	---
24	---	---	---	195	184	190	229	213	221	---	---	---
25	216	209	---	199	191	195	240	211	228	305	283	---
26	223	213	219	204	196	200	252	238	247	315	294	307
27	224	219	223	206	200	204	248	225	237	318	289	306
28	232	221	225	210	203	207	246	223	234	309	286	299
29	234	198	219	214	208	211	252	230	243	307	284	297
30	216	211	---	224	210	219	253	233	244	301	274	289
31	---	---	---	227	210	217	254	236	247	---	---	---
MONTH	285	173	---	227	101	170	254	165	210	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.8	0.2	0.3	2.5	0.4	1.3	11.3	10.3	10.7	10.1	9.4	9.7
2	1.1	0.2	0.4	1.6	0.2	0.6	11.4	10.6	10.9	10.5	9.8	10.2
3	0.8	0.2	0.4	2.8	0.5	---	11.3	10.5	10.9	10.4	10.2	---
4	0.8	0.2	0.3	2.9	0.5	1.4	11.5	10.7	11.0	10.2	9.6	---
5	0.7	0.2	0.4	2.2	0.5	1.3	11.3	10.2	10.7	10.2	9.7	9.9
6	0.7	0.2	0.4	2.9	0.8	1.6	11.1	9.9	10.4	10.3	9.9	10.0
7	2.3	0.2	0.7	2.9	0.8	1.6	11.3	10.4	10.8	11.1	10.1	10.4
8	3.5	1.2	2.0	5.7	0.9	2.2	11.5	10.8	11.0	12.7	11.5	12.1
9	3.1	1.5	2.2	8.6	6.5	7.7	11.7	11.0	11.2	12.6	12.1	---
10	3.2	1.9	2.4	8.9	8.1	8.4	12.3	11.4	11.8	---	---	---
11	2.7	1.5	2.0	9.5	8.3	8.9	12.4	12.0	12.1	---	---	---
12	2.5	1.0	1.5	10.0	9.3	9.6	12.4	11.8	12.0	13.1	11.8	---
13	2.1	0.8	1.3	9.9	8.9	9.4	11.9	11.6	11.7	13.1	11.7	12.3
14	1.8	0.6	0.9	9.9	8.7	9.1	12.0	11.3	11.6	12.8	11.6	12.2
15	1.7	0.8	---	10.3	9.2	9.8	11.9	10.9	11.4	13.0	11.7	12.3
16	2.4	1.4	---	10.3	9.7	9.9	11.4	10.9	---	12.6	11.6	---
17	3.2	1.9	2.2	10.6	9.7	10.0	---	---	---	---	---	---
18	2.8	1.6	2.1	10.2	9.5	9.9	---	---	---	---	---	---
19	3.4	1.5	2.0	10.6	9.6	10.1	---	---	---	---	---	---
20	2.9	1.3	1.9	10.6	9.8	10.1	---	---	---	---	---	---
21	2.5	1.0	1.5	10.6	10.2	10.4	10.7	9.4	---	---	---	---
22	2.4	0.9	1.4	10.5	10.0	10.2	11.5	9.4	10.0	11.0	10.2	---
23	2.3	0.9	1.4	10.4	9.8	10.0	11.1	10.0	10.6	11.1	10.2	10.6
24	2.4	0.8	1.4	11.0	9.8	10.5	10.9	10.4	10.6	10.8	10.2	10.5
25	2.1	0.7	1.2	11.4	10.4	10.8	10.7	10.2	10.4	11.0	10.2	10.6
26	1.8	0.5	0.9	11.2	10.4	10.7	10.4	10.0	10.2	11.2	10.1	10.6
27	1.7	0.3	0.7	11.6	10.8	11.2	10.3	10.0	10.1	10.8	9.9	10.4
28	1.7	0.3	0.6	11.8	11.3	11.5	10.3	9.9	10.1	11.1	10.0	10.5
29	2.2	0.3	0.9	11.4	11.0	11.2	10.3	9.7	10.0	11.5	10.4	11.0
30	3.3	0.7	1.6	11.2	10.5	10.8	10.1	9.5	9.8	11.5	11.0	11.3
31	2.7	0.5	1.5	---	---	---	9.9	9.4	9.6	11.6	10.9	11.1
MONTH	3.5	0.2	1.3	11.8	0.2	7.9	12.4	9.4	10.8	---	---	---

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	10.8	11.1	10.8	9.1	9.9	8.2	6.9	7.5	---	---	---
2	11.4	10.3	10.8	10.5	9.0	9.7	8.6	6.8	7.5	---	---	---
3	12.3	11.0	11.8	10.6	8.6	9.5	8.6	7.4	---	---	---	---
4	12.3	11.6	11.9	9.8	8.1	8.9	---	---	---	---	---	---
5	12.1	11.6	11.7	10.3	8.1	9.3	---	---	---	---	---	---
6	12.2	11.7	11.9	10.4	8.4	9.4	12.1	6.9	---	---	---	---
7	12.2	11.7	---	10.1	8.4	9.3	11.0	9.6	10.2	---	---	---
8	12.0	11.5	11.7	9.8	8.4	9.0	13.0	8.2	9.9	---	---	---
9	11.8	11.4	11.6	9.7	8.4	9.0	10.1	8.5	9.3	4.7	3.2	---
10	11.7	11.3	---	9.5	8.1	8.8	10.0	8.7	9.2	5.4	3.0	4.1
11	---	---	---	9.6	8.1	8.9	9.2	8.6	---	5.4	2.6	4.1
12	---	---	---	9.5	8.2	8.9	---	---	---	6.5	3.6	---
13	12.2	11.4	---	9.5	8.0	8.7	---	---	---	---	---	---
14	12.7	11.4	11.9	9.1	7.3	8.2	---	---	---	6.9	5.5	---
15	12.4	11.4	---	8.9	6.9	7.8	---	---	---	7.3	5.5	6.0
16	12.4	11.2	11.8	8.2	6.7	7.4	10.5	9.3	---	7.6	5.1	6.0
17	12.6	11.9	12.2	8.0	6.4	7.1	10.4	8.6	9.5	7.3	5.1	5.9
18	12.4	11.7	12.0	9.0	7.3	8.3	9.7	8.7	9.2	8.1	5.4	6.6
19	12.5	11.6	12.0	9.1	8.5	8.8	9.3	7.8	8.6	7.9	5.9	7.1
20	12.2	11.5	11.9	8.8	8.0	8.3	8.8	8.2	---	8.7	6.9	7.6
21	12.0	11.1	11.5	8.5	7.5	7.9	9.2	7.5	---	9.0	7.4	8.1
22	11.7	10.8	11.2	9.9	7.8	8.9	8.7	6.4	7.4	9.4	7.9	8.6
23	11.9	10.5	11.0	10.1	8.9	9.5	8.4	6.7	---	9.2	7.7	8.2
24	11.8	10.2	11.1	10.1	8.9	9.4	---	---	---	8.9	7.6	8.1
25	12.1	10.0	11.1	10.2	9.0	9.6	---	---	---	8.3	7.4	7.8
26	12.0	10.2	11.2	10.5	8.9	9.5	---	---	---	8.1	6.9	7.6
27	11.9	10.2	11.0	10.1	8.8	9.4	---	---	---	7.9	6.7	7.3
28	11.1	9.4	10.2	9.9	8.5	9.2	---	---	---	7.6	6.5	7.0
29	---	---	---	9.7	8.4	9.0	---	---	---	8.6	6.6	7.7
30	---	---	---	9.3	7.8	8.6	---	---	---	8.2	7.2	7.7
31	---	---	---	9.1	7.4	8.1	---	---	---	7.5	6.6	7.0
MONTH	12.7	9.4	11.5	10.8	6.4	8.8	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	5.7	6.1	---	---	---	0.7	0.1	0.3	0.8	0.6	0.6
2	6.2	4.5	5.2	---	---	---	0.6	0.0	0.2	1.0	0.6	0.7
3	6.5	4.1	---	6.4	5.8	---	2.6	0.1	0.9	1.4	0.5	0.8
4	---	---	---	6.6	5.3	5.9	2.4	0.6	1.3	1.9	0.5	1.0
5	---	---	---	6.3	4.0	5.6	3.6	0.7	1.8	2.0	0.6	1.2
6	5.5	2.7	---	6.0	4.8	5.2	3.6	0.8	1.7	1.9	0.6	1.1
7	5.7	1.3	3.5	5.3	4.0	4.6	2.2	0.4	1.1	2.2	0.7	1.2
8	5.6	2.5	3.7	5.5	3.7	4.3	2.7	0.0	1.0	2.3	0.6	1.1
9	6.8	3.4	4.9	4.4	3.6	---	2.7	0.3	1.1	2.2	0.7	1.3
10	6.5	3.4	4.8	3.8	2.6	---	2.5	0.2	0.9	2.2	0.8	1.5
11	4.7	2.7	---	3.8	2.1	2.9	2.3	0.3	0.9	2.3	0.6	1.3
12	---	---	---	3.0	1.0	2.0	1.6	0.4	1.0	1.5	0.6	---
13	2.5	0.0	---	1.9	1.0	1.4	1.9	0.6	1.1	1.0	0.5	---
14	1.4	0.0	0.3	1.9	0.9	1.3	1.2	0.7	---	1.1	0.4	0.7
15	0.9	0.0	0.1	1.9	0.0	1.0	---	---	---	1.5	0.0	0.8
16	0.3	0.0	0.0	1.2	0.5	0.8	---	---	---	2.2	0.6	1.1
17	0.7	0.0	0.1	0.8	0.2	0.4	---	---	---	3.0	0.8	1.6
18	0.3	0.0	0.0	1.2	0.0	0.3	---	---	---	2.1	0.7	1.3
19	0.6	0.0	0.1	1.5	0.0	0.6	---	---	---	2.2	0.9	1.4
20	0.4	0.0	---	3.0	0.3	0.8	---	---	---	2.0	0.7	1.3
21	---	---	---	1.9	0.2	0.8	1.2	0.3	---	2.3	0.8	1.4
22	---	---	---	2.1	0.4	1.0	1.5	0.3	0.8	2.0	0.7	1.2
23	---	---	---	2.9	0.6	1.3	1.7	0.7	1.1	2.4	0.9	1.4
24	---	---	---	2.3	0.5	1.0	1.6	0.6	1.0	1.9	0.9	1.3
25	2.2	0.2	---	2.1	0.0	0.9	1.5	0.5	0.9	2.2	0.8	1.2
26	1.7	0.5	0.8	1.9	0.5	1.0	1.6	0.6	1.0	2.4	0.9	1.4
27	1.3	0.4	0.6	1.8	0.5	1.0	1.3	0.7	0.9	2.6	0.8	1.3
28	1.0	0.4	0.5	1.8	0.3	0.9	1.6	0.6	1.0	2.0	0.7	1.1
29	2.4	0.3	0.7	1.7	0.4	1.0	1.3	0.6	0.8	1.4	0.6	0.8
30	1.3	0.4	---	1.4	0.6	1.1	1.1	0.6	0.7	1.5	0.6	0.9
31	---	---	---	1.1	0.3	0.6	0.9	0.6	0.7	---	---	---
MONTH	---	---	---	6.6	0.0	1.8	3.6	0.0	---	3.0	0.0	1.1

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.7	6.8	6.9	6.8	6.9	7.2	7.1	7.2	7.3	7.2	7.3
2	6.9	6.7	6.8	7.0	6.8	6.9	7.1	7.0	7.1	7.4	7.3	7.4
3	6.9	6.7	6.8	7.1	6.8	7.0	7.1	7.1	7.1	7.4	7.4	---
4	6.9	6.7	6.8	7.0	6.8	6.9	7.2	7.0	7.1	7.3	7.2	---
5	6.9	6.7	6.8	6.9	6.8	6.9	7.2	7.1	7.2	7.2	6.9	7.1
6	6.9	6.7	6.8	7.0	6.8	6.9	7.2	7.1	7.2	7.2	7.1	7.1
7	6.9	6.7	6.8	7.0	6.8	6.9	7.3	7.1	7.2	7.2	7.1	7.2
8	6.9	6.8	6.9	7.0	6.8	6.9	7.4	7.2	7.3	7.2	7.0	7.1
9	6.9	6.8	6.8	7.2	7.1	7.2	7.4	7.3	7.3	7.1	7.0	---
10	7.3	6.8	7.0	7.2	7.0	7.1	7.3	7.2	7.3	---	---	---
11	7.2	6.9	7.0	7.2	7.0	7.1	7.3	7.1	7.2	7.2	7.0	---
12	7.0	6.8	6.9	7.0	6.9	7.0	7.3	7.2	7.3	7.3	7.0	7.2
13	6.9	6.8	6.8	6.9	6.8	6.9	7.3	7.2	7.3	7.3	7.1	7.2
14	6.9	6.7	6.8	6.8	6.8	6.8	7.3	7.2	7.3	7.3	7.0	7.2
15	6.8	6.8	---	7.0	6.8	6.9	7.3	7.1	7.2	7.3	7.1	7.2
16	6.9	6.7	---	7.0	6.9	6.9	7.2	7.2	---	7.3	7.1	---
17	6.9	6.8	6.9	7.0	6.9	6.9	---	---	---	---	---	---
18	6.9	6.7	6.8	6.9	6.8	6.9	---	---	---	---	---	---
19	7.0	6.7	6.9	6.8	6.8	6.8	7.4	7.1	---	---	---	---
20	6.9	6.7	6.8	7.1	6.8	7.0	7.3	7.0	7.2	---	---	---
21	6.9	6.7	6.8	7.1	7.0	7.1	7.3	7.0	7.2	---	---	---
22	6.9	6.7	6.8	7.1	7.0	7.1	7.4	7.1	7.2	7.1	6.9	---
23	6.9	6.7	6.8	7.1	7.0	7.0	7.4	7.2	7.3	7.1	6.9	7.0
24	6.9	6.7	6.8	7.2	7.0	7.1	7.4	7.4	7.4	7.2	6.9	7.1
25	6.9	6.7	6.8	7.2	7.1	7.2	7.4	7.4	7.4	7.2	7.0	7.1
26	6.9	6.6	6.8	7.1	7.1	7.1	7.4	7.3	7.3	7.1	7.0	7.1
27	6.9	6.7	6.8	7.2	7.1	7.2	7.3	7.2	7.2	7.1	7.0	7.1
28	6.9	6.7	6.8	7.3	7.2	7.3	7.3	7.2	7.2	7.0	6.9	7.0
29	6.9	6.8	6.9	7.4	7.3	7.3	7.3	7.1	7.3	7.3	7.0	7.1
30	7.0	6.8	6.9	7.3	7.2	7.3	7.3	7.2	7.3	7.3	7.2	7.3
31	7.0	6.8	6.9	---	---	---	7.3	7.2	7.3	7.3	7.2	7.3
MONTH	7.3	6.6	6.8	7.4	6.8	7.0	7.4	7.0	7.2	7.4	6.9	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.2	7.3	7.3	7.1	7.3	7.0	6.9	7.0	6.7	6.6	6.7
2	7.3	7.2	7.3	7.3	7.1	7.2	7.0	6.9	7.0	7.0	6.6	---
3	7.4	7.2	7.3	7.3	7.1	7.2	7.0	7.0	---	7.2	6.8	---
4	7.4	7.3	7.4	7.2	7.1	7.2	---	---	---	6.8	6.5	6.6
5	7.3	7.0	7.2	7.4	7.1	7.2	---	---	---	6.4	6.3	6.4
6	7.1	6.9	7.0	7.4	7.1	7.3	7.3	7.0	---	6.5	6.4	6.4
7	7.0	6.9	---	7.3	7.1	7.2	7.3	7.0	7.2	6.5	6.4	---
8	7.0	6.8	7.0	7.4	7.1	7.2	7.1	6.9	6.9	---	---	---
9	7.0	7.0	7.0	7.5	7.4	7.5	6.9	6.9	---	---	---	---
10	7.0	6.9	---	7.6	7.5	7.5	---	---	---	---	---	---
11	---	---	---	7.6	7.5	7.6	6.9	6.8	---	---	---	---
12	---	---	---	7.6	7.5	7.5	7.0	6.9	7.0	---	---	---
13	7.2	7.1	---	7.5	7.5	7.5	7.1	6.9	7.0	---	---	---
14	7.3	7.0	7.2	7.5	7.1	7.3	7.1	7.0	7.0	6.6	6.3	---
15	7.3	7.0	---	7.2	7.1	7.2	7.0	7.0	7.0	6.7	6.4	6.5
16	7.3	7.1	7.2	7.1	7.0	7.0	7.0	6.8	6.9	6.5	6.4	6.5
17	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.8	6.8	6.8	6.3	6.4
18	7.3	7.0	7.2	7.2	7.1	7.2	7.0	6.8	6.9	6.5	6.3	6.4
19	7.2	7.0	7.2	7.2	7.0	7.1	6.9	6.8	6.9	6.6	6.4	6.5
20	7.3	7.1	7.3	7.0	6.9	7.0	6.9	6.6	6.8	6.7	6.4	6.6
21	7.3	7.2	7.3	7.0	6.9	7.0	6.9	6.3	6.7	6.9	6.5	6.7
22	7.3	7.2	7.3	7.2	6.9	7.1	7.0	6.7	6.9	6.9	6.4	6.5
23	7.3	7.1	7.2	7.2	7.1	7.2	7.2	6.8	7.0	6.6	6.2	6.5
24	7.3	7.1	7.2	7.1	7.0	7.1	7.2	6.7	6.9	6.9	6.2	6.5
25	7.4	7.1	7.3	7.1	7.0	7.1	6.8	6.7	6.7	6.9	6.3	6.5
26	7.4	7.1	7.3	7.2	7.0	7.1	6.9	6.7	6.8	6.6	6.3	6.4
27	7.4	7.1	7.3	7.1	7.0	7.1	6.9	6.6	6.7	6.6	6.3	6.4
28	7.4	7.2	7.3	7.1	7.0	7.1	6.9	6.6	6.7	6.5	6.4	---
29	---	---	---	7.1	7.0	7.1	6.8	6.7	6.7	---	---	---
30	---	---	---	7.2	7.0	7.1	6.8	6.7	6.7	---	---	---
31	---	---	---	7.1	6.9	7.0	---	---	---	---	---	---
MONTH	7.4	6.8	7.2	7.6	6.9	7.2	7.3	6.3	---	---	---	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.9	6.7	6.8	7.1	6.9	7.0
2	---	---	---	---	---	---	7.1	6.9	7.1	7.1	7.0	7.1
3	---	---	---	---	---	---	7.1	7.1	---	7.2	7.0	7.1
4	---	---	---	---	---	---	---	---	---	7.3	6.9	7.1
5	---	---	---	---	---	---	---	---	---	7.1	6.4	6.8
6	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
7	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
8	---	---	---	---	---	---	---	---	---	6.7	6.4	6.6
9	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
10	---	---	---	---	---	---	---	---	---	6.7	6.4	6.6
11	---	---	---	---	---	---	---	---	---	6.7	6.4	6.6
12	---	---	---	6.8	6.7	---	---	---	---	6.7	6.5	---
13	6.7	6.4	---	6.8	6.7	6.7	---	---	---	---	---	---
14	6.5	6.3	6.4	6.8	6.7	6.8	---	---	---	---	---	---
15	6.3	6.3	6.3	6.8	6.7	6.8	---	---	---	---	---	---
16	7.2	6.3	6.6	6.8	6.7	6.8	---	---	---	---	---	---
17	7.3	6.4	6.8	6.9	6.7	6.8	---	---	---	---	---	---
18	6.6	6.4	6.5	6.8	6.7	6.8	---	---	---	6.9	6.3	---
19	7.2	6.6	---	6.9	6.7	6.8	---	---	---	6.3	6.1	6.2
20	---	---	---	6.9	6.7	6.8	---	---	---	6.3	6.1	6.2
21	---	---	---	6.9	6.8	6.9	---	---	---	6.3	6.1	6.2
22	---	---	---	7.0	6.9	6.9	---	---	---	6.3	6.0	6.2
23	---	---	---	7.0	6.9	6.9	---	---	---	6.6	6.1	6.4
24	---	---	---	6.9	6.8	6.9	---	---	---	6.4	6.2	6.3
25	7.3	6.7	---	6.8	6.8	6.8	---	---	---	6.6	6.0	6.3
26	7.4	6.6	6.8	6.9	6.8	6.9	---	---	---	6.4	6.2	6.3
27	---	---	---	6.9	6.8	6.9	---	---	---	6.4	6.1	6.3
28	---	---	---	6.9	6.8	6.9	7.6	7.0	---	6.5	6.3	6.4
29	---	---	---	6.9	6.8	6.9	7.1	6.9	7.0	6.6	6.3	6.5
30	---	---	---	6.9	6.8	6.9	7.1	6.9	7.0	6.6	6.2	6.3
31	---	---	---	6.9	6.8	6.8	7.1	6.9	7.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	7.3	6.0	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	21.5	21.5	14.5	14.0	14.5	7.0	6.0	6.5	6.0	6.0	6.0
2	21.5	21.5	21.5	14.5	14.0	14.5	6.0	5.5	6.0	6.0	5.5	6.0
3	21.5	21.0	21.5	14.5	14.0	14.5	6.0	6.0	6.0	6.0	5.5	---
4	21.5	21.5	21.5	14.5	14.0	14.5	6.0	5.5	6.0	6.0	5.5	---
5	21.5	21.0	21.5	14.5	14.0	14.5	6.5	5.5	6.0	5.5	5.0	5.5
6	21.5	21.0	21.5	14.5	14.0	14.0	7.0	6.0	6.5	5.0	4.0	4.5
7	21.5	20.0	21.0	14.5	14.0	14.0	6.5	5.5	6.0	4.5	4.0	4.0
8	20.0	19.5	20.0	14.5	13.5	14.0	6.5	5.5	6.0	4.0	3.0	3.5
9	20.0	19.0	19.5	13.5	12.0	13.0	6.5	6.0	6.5	3.5	3.0	---
10	19.0	18.5	19.0	12.0	11.5	12.0	6.0	5.5	6.0	---	---	---
11	19.0	18.5	19.0	11.5	10.5	11.0	5.5	5.0	5.5	3.0	2.0	---
12	19.0	18.5	18.5	10.5	10.5	10.5	5.5	5.0	5.0	2.0	1.0	1.5
13	18.5	18.0	18.5	10.5	10.0	10.5	6.0	5.5	5.5	1.5	1.0	1.5
14	18.5	18.0	18.5	10.5	10.0	10.5	6.0	5.5	6.0	1.5	1.0	1.0
15	18.0	18.0	---	10.0	9.5	10.0	6.0	5.5	5.5	1.5	1.0	1.0
16	17.0	17.0	---	9.5	8.5	9.0	6.0	5.5	---	2.0	1.5	---
17	17.0	16.5	17.0	8.5	7.0	8.0	---	---	---	---	---	---
18	17.0	16.0	16.5	8.0	7.0	7.5	---	---	---	---	---	---
19	16.5	16.0	16.0	7.0	6.5	7.0	4.0	3.5	---	---	---	---
20	16.0	15.5	15.5	7.0	6.5	7.0	4.0	3.0	3.5	---	---	---
21	15.5	15.0	15.5	7.0	6.5	6.5	4.0	3.0	3.5	---	---	---
22	15.5	15.0	15.5	7.0	6.5	6.5	4.0	3.5	4.0	4.5	3.5	---
23	15.5	15.0	15.5	6.0	5.5	6.0	4.0	3.5	3.5	5.0	4.0	4.5
24	15.5	15.5	15.5	6.0	5.5	6.0	4.5	4.0	4.5	5.0	4.5	5.0
25	15.5	15.0	15.5	6.0	5.5	5.5	5.0	4.5	4.5	5.0	4.5	5.0
26	15.5	15.0	15.0	6.5	5.5	6.0	5.0	5.0	5.0	5.0	4.5	5.0
27	15.5	15.0	15.0	6.0	5.5	5.5	5.0	5.0	5.0	5.5	5.0	5.0
28	15.5	15.0	15.5	6.0	5.5	6.0	5.0	5.0	5.0	5.5	4.5	5.0
29	15.5	15.0	15.5	6.5	6.0	6.5	5.0	5.0	5.0	5.0	4.0	4.5
30	15.0	14.5	15.0	6.5	6.0	6.5	5.5	5.0	5.0	4.0	4.0	4.0
31	15.0	14.0	14.5	---	---	---	6.0	5.5	5.5	4.0	3.5	4.0
MONTH	22.0	14.0	17.5	14.5	5.5	9.5	7.0	3.0	5.5	6.0	1.0	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.5	3.5	4.5	4.0	4.5	10.5	9.5	10.0	15.0	14.0	14.5
2	5.0	3.5	4.0	5.5	4.5	5.0	10.5	10.0	10.5	15.0	14.0	14.5
3	4.5	3.5	4.0	5.5	5.0	5.0	10.5	10.5	---	15.0	14.5	14.5
4	4.5	3.5	4.0	6.0	5.0	5.5	---	---	---	15.0	14.5	14.5
5	4.5	3.5	4.0	6.0	5.5	5.5	---	---	---	14.5	14.5	14.5
6	4.0	3.5	4.0	6.0	5.5	6.0	9.5	9.0	---	14.5	14.5	14.5
7	4.0	3.5	---	6.5	6.0	6.0	9.5	9.0	9.0	15.0	14.5	14.5
8	4.5	3.5	4.0	7.0	6.5	6.5	9.0	8.5	9.0	15.5	15.0	---
9	4.5	4.0	4.0	8.5	7.0	7.5	9.5	9.0	9.0	15.5	15.0	15.0
10	4.0	3.5	---	9.0	8.0	8.5	9.5	9.0	9.5	16.0	15.5	15.5
11	---	---	---	9.0	8.5	8.5	10.0	9.0	9.5	16.0	16.0	16.0
12	---	---	---	9.5	9.0	9.0	9.5	9.0	9.5	16.5	16.0	---
13	3.0	2.0	---	10.0	9.0	9.5	9.5	9.0	9.0	---	---	---
14	3.0	1.5	2.5	10.0	9.5	9.5	9.0	9.0	9.0	16.5	16.0	---
15	3.5	2.0	---	10.0	9.5	10.0	9.0	9.0	9.0	16.5	15.5	16.0
16	3.5	2.0	2.5	10.5	10.0	10.0	9.5	9.0	9.5	16.0	15.0	15.5
17	2.0	1.5	1.5	10.5	10.0	10.5	10.0	9.5	10.0	16.0	15.5	15.5
18	1.5	1.5	1.5	10.0	9.5	10.0	11.0	10.0	10.5	15.5	14.5	15.0
19	2.0	1.5	1.5	9.5	9.0	9.0	11.5	10.5	11.0	15.0	14.5	14.5
20	3.0	1.5	2.0	9.0	8.5	9.0	13.0	11.0	11.5	14.5	14.0	14.5
21	3.5	2.0	3.0	8.5	8.0	8.5	13.5	11.5	12.5	15.0	11.5	14.0
22	3.5	3.0	3.0	8.5	7.0	8.0	14.0	13.0	13.5	14.0	13.0	13.5
23	3.5	3.0	3.0	7.0	6.5	7.0	15.5	13.5	14.5	13.5	12.0	13.5
24	3.5	3.0	3.5	7.0	6.5	6.5	16.0	14.5	15.5	13.5	13.5	13.5
25	3.5	3.0	3.5	6.5	6.5	6.5	16.0	15.5	15.5	13.5	13.5	13.5
26	3.5	3.0	3.5	7.0	6.5	7.0	16.0	15.5	16.0	13.5	13.5	13.5
27	4.0	3.5	3.5	8.0	7.0	7.0	16.0	15.0	15.5	13.5	13.5	13.5
28	4.5	3.5	4.0	8.0	7.0	7.5	15.5	15.5	15.5	14.5	13.5	14.0
29	---	---	---	8.5	8.0	8.0	15.5	15.0	15.0	15.0	14.0	14.5
30	---	---	---	9.5	8.0	9.0	15.0	14.5	15.0	16.0	15.0	15.5
31	---	---	---	10.0	9.0	9.5	---	---	---	16.5	15.5	16.0
MONTH	5.0	1.5	3.0	10.5	4.0	7.5	16.0	8.5	11.5	16.5	11.5	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.0	17.0	---	---	---	27.0	27.0	27.0	28.5	28.0	28.0
2	18.5	17.0	17.5	---	---	---	27.0	27.0	27.0	28.5	28.0	28.0
3	18.5	18.0	---	21.5	21.0	---	27.0	27.0	27.0	28.5	28.5	28.5
4	---	---	---	22.0	21.0	21.5	27.0	27.0	27.0	29.0	28.5	28.5
5	---	---	---	23.0	21.5	22.5	27.0	26.5	27.0	29.0	28.5	29.0
6	20.5	20.0	---	23.0	23.0	23.0	28.0	26.0	26.5	29.0	29.0	29.0
7	21.0	20.5	21.0	23.5	23.0	23.5	27.0	26.0	26.5	29.0	28.5	28.5
8	22.0	21.0	21.5	24.5	23.5	24.0	27.0	26.0	26.5	28.5	28.0	28.5
9	23.0	21.5	22.5	25.0	24.5	24.5	27.0	26.5	26.5	28.0	27.0	27.5
10	24.0	23.0	23.0	25.5	25.0	25.0	27.0	26.5	27.0	27.0	26.5	26.5
11	24.0	23.5	24.0	25.5	25.0	25.0	27.0	26.5	---	26.5	26.5	26.5
12	25.0	23.0	24.0	25.0	25.0	25.0	---	---	---	26.5	26.0	---
13	25.0	24.0	24.5	25.0	25.0	25.0	---	---	---	26.0	25.5	---
14	24.5	24.5	24.5	25.5	25.0	25.0	---	---	---	25.5	24.5	25.5
15	24.5	23.5	24.5	25.5	25.0	25.0	27.0	26.0	---	25.0	24.5	24.5
16	24.5	24.0	24.0	25.5	25.0	25.0	26.5	26.5	26.5	25.0	24.5	24.5
17	24.0	24.0	24.0	25.5	25.0	25.5	26.5	26.5	26.5	24.5	23.5	24.0
18	25.0	23.5	24.0	25.5	25.0	25.5	26.5	26.5	26.5	24.0	23.5	24.0
19	24.5	24.5	24.5	26.0	25.5	25.5	26.5	26.0	26.5	23.5	23.5	23.5
20	24.5	23.5	---	26.0	25.5	26.0	26.5	26.0	26.0	24.0	23.0	23.5
21	---	---	---	26.0	25.5	26.0	26.0	25.5	26.0	23.5	22.0	23.0
22	---	---	---	26.0	25.5	26.0	26.0	25.5	25.5	23.0	21.5	22.0
23	---	---	---	26.0	25.5	26.0	26.0	25.5	25.5	23.0	21.5	22.0
24	---	---	---	26.5	26.0	26.0	25.5	25.0	25.5	22.0	21.5	22.0
25	24.5	23.5	---	26.5	26.0	26.0	26.0	25.5	25.5	22.0	21.5	22.0
26	25.0	24.0	24.5	26.5	21.0	26.0	26.0	25.0	25.5	22.0	21.0	21.5
27	25.0	24.5	24.5	26.5	26.0	26.5	26.0	25.5	25.5	22.0	21.0	21.5
28	25.0	24.5	25.0	27.0	26.5	26.5	26.5	26.0	26.0	22.0	21.5	21.5
29	25.0	24.0	24.5	27.0	26.5	26.5	27.0	26.5	26.5	22.0	21.5	21.5
30	24.5	24.5	---	27.0	26.5	27.0	28.0	26.5	27.0	21.5	21.0	21.0
31	---	---	---	28.0	27.0	27.0	28.0	27.0	27.5	---	---	---
MONTH	25.0	16.0	---	28.0	21.0	25.0	28.0	25.0	26.5	29.0	21.0	25.0

01470500 SCHUYLKILL RIVER AT BERNE, PA.

LOCATION.--Lat 40°31'20", long 75°59'55", Berks County, at highway bridge 50 ft (15 m) downstream from gaging station at Berne, 0.5 mile (0.8 km) upstream from Mill Creek, and 6.5 miles (10.5 km) downstream from Little Schuylkill River.

DRAINAGE AREA.--355 mi^2 (919 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1947 to February 1953, October 1956 to September 1973.
Water temperatures: February 1948 to September 1953, December 1946 to September 1973.
Sediment records: October 1947 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 986 micromhos Oct. 4; minimum daily, 175 micromhos Feb. 3.
pH: Maximum daily, 7.3 June 23-24; minimum daily, 4.9 Sept. 18.
Water temperatures: Maximum daily, 29.0°C Aug. 30-31; minimum daily, 1.0°C Jan. 14, Feb. 14, 19.

Period of record:
Specific conductance (1963-73): Maximum daily, 1,410 micromhos Oct. 25, 26, 28, 1964; minimum daily, 128 micromhos Feb. 18, 1969.
pH (1963-73): Maximum daily, 7.3 July 31, 1971, June 23-24, 1973; minimum daily, 3.6 July 25, 31, 1966.
Water temperatures: Maximum daily, 33.0°C July 3, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Sediment data for this station on page 331. Unpublished records of specific conductance and pH of sediment samples available in the district office at Harrisburg.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	948	903	315	219	301	532	391	334	232	271	707	684
2	980	903	360	243	---	527	274	234	272	328	314	701
3	983	829	387	269	175	536	242	348	292	360	321	683
4	986	832	398	303	197	588	217	360	322	369	328	625
5	---	794	349	313	220	582	188	345	355	345	410	528
6	948	805	310	362	249	526	194	339	330	353	459	503
7	946	869	201	342	271	498	215	349	282	366	449	546
8	960	418	219	400	294	445	251	372	252	399	469	587
9	930	206	245	360	309	397	248	321	281	414	514	608
10	931	226	230	370	313	383	242	314	352	418	557	676
11	921	252	233	389	319	379	205	266	399	426	339	725
12	891	310	253	406	420	424	216	214	359	467	333	724
13	864	372	291	411	393	397	239	248	370	492	408	720
14	848	300	294	470	377	379	263	291	386	513	388	493
15	836	232	297	489	424	344	306	351	414	534	415	234
16	843	236	326	443	422	380	341	280	415	544	445	244
17	882	277	330	441	416	361	324	267	436	520	465	348
18	911	283	356	443	404	298	309	299	529	536	488	356
19	913	304	341	453	486	278	300	321	506	525	513	256
20	895	324	311	440	450	255	368	356	490	598	606	283
21	872	260	338	497	447	254	398	309	448	574	622	324
22	857	279	309	361	433	274	431	288	480	584	576	347
23	869	315	239	235	461	310	446	307	488	612	546	397
24	929	354	252	225	478	338	400	292	508	631	571	416
25	973	356	270	267	529	403	400	310	607	586	581	394
26	957	309	304	281	565	379	376	338	601	574	586	420
27	958	246	322	299	548	328	332	369	529	593	659	413
28	876	243	306	318	523	306	351	263	358	605	739	456
29	939	270	340	275	---	358	367	238	221	621	698	479
30	843	301	355	270	---	359	396	232	210	691	673	487
31	856	---	315	279	---	393	---	244	---	705	648	---

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	6.8	6.7	6.2	6.7	6.3	6.4	---	6.7	6.7	6.5	6.4
2	6.8	6.7	6.7	6.1	---	6.3	6.2	---	6.7	6.7	6.5	6.5
3	6.7	6.3	6.6	6.4	6.7	6.3	6.2	6.8	6.7	6.5	6.4	6.5
4	6.8	5.9	6.5	6.2	6.5	6.4	---	6.9	6.6	6.5	6.4	6.6
5	---	6.5	---	6.3	6.3	6.1	---	6.4	6.7	6.5	6.3	6.4
6	6.2	6.7	---	6.5	6.3	5.5	---	6.3	6.0	6.0	6.0	6.3
7	6.0	6.8	5.9	5.9	5.7	5.5	---	7.1	6.5	6.0	5.7	6.4
8	5.4	6.7	6.1	5.9	5.9	6.1	---	5.3	6.5	5.6	5.7	6.5
9	6.3	6.6	6.2	6.1	6.0	6.1	---	6.0	6.7	5.6	6.0	6.6
10	6.5	6.6	6.2	6.4	6.2	6.2	---	6.3	6.6	5.6	5.2	6.4
11	6.4	6.6	6.2	6.5	6.0	6.2	---	6.4	6.4	6.0	6.2	6.1
12	6.4	6.7	6.5	6.6	5.1	5.9	---	6.5	6.7	5.8	6.1	5.5
13	6.4	6.7	6.4	6.6	6.0	6.2	---	6.6	6.9	5.6	5.2	5.2
14	6.2	6.7	6.5	6.0	5.9	6.1	---	---	6.7	5.6	6.1	6.1
15	6.4	6.8	6.1	5.5	6.0	6.2	---	6.3	6.7	5.7	6.2	6.4
16	6.5	6.7	6.3	6.6	6.1	6.3	---	6.9	6.6	5.2	6.3	6.2
17	6.5	6.8	6.3	6.5	6.1	6.0	---	6.4	6.9	5.7	6.3	6.2
18	6.5	6.8	6.2	6.5	6.3	6.0	---	6.4	6.8	5.8	6.3	4.9
19	6.5	6.8	6.4	6.5	6.0	6.0	---	6.5	6.9	6.2	6.4	5.8
20	6.6	6.8	6.4	6.6	6.1	6.1	---	6.3	7.1	6.4	6.3	6.1
21	6.6	6.8	6.5	6.7	6.3	6.2	---	6.4	7.2	6.4	6.4	6.0
22	6.6	6.8	6.3	5.9	6.4	6.0	---	6.5	7.2	6.5	6.5	6.0
23	6.5	6.7	6.5	6.2	6.5	6.2	---	6.5	7.3	6.4	6.4	6.0
24	6.5	6.6	6.5	6.3	6.6	6.3	---	6.4	7.3	6.3	6.4	6.0
25	6.6	6.3	6.1	6.5	6.2	5.9	---	6.4	7.1	6.1	6.4	5.2
26	6.6	6.5	6.3	6.7	6.2	6.0	---	6.6	7.1	6.3	6.4	5.7
27	6.7	6.5	6.2	6.5	6.0	6.2	---	6.5	7.1	6.4	6.2	6.0
28	6.7	6.6	6.4	6.6	6.2	6.3	---	6.4	7.0	6.4	6.0	6.0
29	6.7	6.6	6.2	6.6	---	6.2	---	6.6	7.0	6.6	5.8	5.3
30	6.7	6.6	6.3	6.7	---	6.3	---	6.6	6.8	6.5	6.1	6.3
31	6.8	---	6.2	6.7	---	6.3	---	6.7	---	6.6	6.3	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	4.0	9.0	3.0	4.0	10.0	8.0	18.0	22.0	24.0	28.0
2	16.0	9.5	5.0	5.0	---	7.5	11.0	10.0	18.5	22.0	23.0	28.5
3	17.5	9.0	5.0	5.0	5.5	6.0	10.5	9.0	18.0	21.0	22.0	28.0
4	18.0	11.0	6.0	5.5	5.0	7.0	8.0	8.0	20.0	22.0	23.0	27.5
5	---	10.0	6.0	6.0	5.0	7.5	8.0	13.0	22.5	22.0	23.5	26.0
6	17.5	7.0	8.0	5.0	5.0	7.0	10.0	15.0	22.5	24.0	27.0	22.5
7	17.0	11.0	5.0	2.0	6.0	7.0	12.0	10.0	22.0	24.0	24.0	25.0
8	13.5	11.0	5.0	2.5	4.0	8.0	11.0	13.0	22.0	24.0	24.5	24.0
9	14.0	10.0	6.0	3.0	5.0	9.0	---	16.0	23.5	25.0	25.5	22.0
10	14.0	10.0	7.5	3.5	4.0	9.0	9.5	18.0	24.0	26.0	27.0	19.5
11	12.0	9.0	6.0	3.0	2.0	9.0	8.0	17.0	24.0	27.0	24.0	22.0
12	12.0	10.0	5.0	2.5	3.5	10.0	7.5	15.0	24.5	21.0	23.0	23.0
13	13.0	9.0	6.0	2.5	2.0	11.0	7.5	13.0	25.0	23.0	23.5	22.0
14	17.0	9.5	5.5	1.0	1.0	9.0	10.0	14.0	20.0	25.0	22.0	18.0
15	11.0	7.0	4.0	3.0	4.0	9.0	11.5	12.0	22.0	23.0	24.0	17.0
16	13.0	6.5	3.5	3.5	3.0	11.0	13.0	12.0	21.0	23.0	22.0	18.5
17	12.5	5.0	2.5	4.5	2.5	11.0	13.0	13.0	---	22.0	23.0	17.0
18	9.5	7.0	4.0	4.0	2.0	7.0	15.0	12.0	18.0	25.0	22.5	18.0
19	9.0	4.5	4.0	5.0	1.0	6.0	17.0	15.0	18.0	23.0	22.0	17.0
20	10.0	6.0	5.0	4.0	2.0	7.0	16.0	13.5	22.0	25.0	22.5	16.0
21	9.0	5.0	8.0	3.0	4.0	7.0	15.0	15.0	22.0	26.0	21.0	15.0
22	7.0	4.0	6.0	5.5	3.5	5.0	18.0	16.0	22.0	24.0	19.0	15.0
23	10.0	4.0	8.0	6.0	3.5	6.5	16.0	14.0	23.0	26.0	22.0	19.0
24	13.0	4.5	6.0	6.0	2.5	9.5	16.0	13.5	24.0	24.5	22.0	18.0
25	11.0	4.5	7.0	5.0	4.0	9.5	13.0	13.5	22.0	26.0	25.0	17.0
26	11.0	6.5	8.0	5.5	5.0	9.5	12.0	15.0	24.0	24.0	25.0	17.5
27	10.0	6.5	6.0	6.0	3.5	9.0	10.0	12.0	24.5	27.5	26.0	18.0
28	11.5	6.0	5.5	6.0	5.0	11.0	10.0	15.0	23.0	28.5	28.0	20.0
29	11.5	6.0	4.0	3.0	---	10.0	12.0	17.0	21.0	27.5	28.5	19.0
30	11.0	5.5	4.5	3.5	---	9.5	7.0	18.0	22.0	25.0	29.0	18.0
31	10.0	---	7.0	2.5	---	11.0	---	17.5	---	24.0	29.0	---

01470700 TULPEHOCKEN CREEK AT BERNVILLE, PA.

LOCATION.--Lat 40°25'32", long 76°06'51", Berks County, at single-span concrete bridge on Legislative Route 06047, 0.5 mile (0.8 km) south of Bernville, 600 ft (183 m) above confluence with Northkill Creek.

DRAINAGE AREA.--84.8 mi^2 (220 km^2).

PERIOD OF RECORD --Chemical analyses: June 1972 to September 1973.
Sediment records: October 1972 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 359.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JUNE 14...	1100	167	5.0	4.7	.09	.11	1.6	1.6	1.7	1.7	.18
JULY 18...	1030	170	4.1	4.1	.02	.08	.90	.78	.92	.86	.37
AUG. 22...	1010	180	5.7	5.7	.01	.07	.26	.34	.27	.41	.14
SEP. 19...	0900	186	6.1	5.4	.08	.06	.37	.38	.45	.44	.17

DATE	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 14...	.09	.15	.07	880	7.9	17.0	9.4	4100	2200	4800	--
JULY 18...	.07	.20	.05	--	7.6	16.0	6.0	--	--	--	--
AUG. 22...	.12	.12	.09	525	8.4	19.0	8.6	11000	1200	900	2.0
SEP. 19...	.15	.12	.10	440	7.6	19.0	7.6	7800	1400	1100	4.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT. 17...	0915	--	190	5.6	5.4	--	--	.03	.06
NOV. 21...	1030	--	146	2.1	2.1	--	--	.11	.12
DEC. 19...	1030	--	180	5.4	5.4	--	--	.04	.14
JAN. 16...	0900	--	170	7.5	7.0	--	--	.05	.07
FEB. 13...	1000	--	170	6.8	6.3	--	--	.10	.12
MAR. 13...	1000	--	180	6.0	5.9	--	--	.16	.04
APR. 01...	2025	--	--	2.5	--	--	--	.26	--
02...	1330	--	--	2.9	--	--	--	.28	--
27...	2035	--	--	4.7	--	--	--	.25	--
MAY 22...	1100	132	178	5.4	5.0	--	--	.14	.13
JUNE 12...	1315	173	--	--	5.2	.02	5.3	5.3	8.0
JULY 17...	1100	129	--	--	6.0	.00	6.0	--	.02
AUG. 14...	1030	--	--	--	5.2	.00	5.2	--	.29
SEP. 11...	1030	60	184	--	5.5	.00	5.5	--	.10

01470700 TULPEHOCKEN CREEK AT BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT.									
17...	.42	.84	.45	.90	--	.17	.12	.14	.11
NOV.									
21...	.79	.86	.90	.98	--	.15	.11	.14	.10
DEC.									
19...	.49	.29	.53	.43	--	.14	.06	.13	.06
JAN.									
16...	.42	.11	.47	.18	--	.11	.06	.06	.04
FEB.									
13...	.67	.47	.77	.59	--	.10	.06	.06	.04
MAR.									
13...	1.8	1.2	2.0	1.2	--	.10	.05	.07	.05
APR.									
01...	2.8	--	3.1	--	--	.90	--	.37	--
02...	1.6	--	1.9	--	--	.51	--	.24	--
27...	.94	--	1.2	--	--	.19	--	.11	--
MAY									
22...	.38	.13	.52	.26	--	.19	.25	.13	.23
JUNE									
12...	.17	--	.38	--	13	.17	--	--	.12
JULY									
17...	.23	--	.25	--	6.2	.10	--	--	.08
AUG.									
14...	.18	--	.47	--	5.7	.18	--	--	.14
SEP.									
11...	.27	--	.37	--	5.9	.16	--	--	.16

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
17...	490	7.8	11.5	9.0	750	690	400	5.0
NOV.								
21...	400	7.7	5.5	12.4	15000	6800	4300	6.5
DEC.								
19...	460	7.9	4.5	12.5	13500	2400	380	3.0
JAN.								
16...	460	8.2	4.5	12.6	2100	800	1100	2.5
FEB.								
13...	480	8.1	2.0	14.6	15000	3300	1300	3.5
MAR.								
13...	460	8.0	9.5	12.2	2900	150	77	1.0
APR.								
01...	360	7.9	12.0	--	37000	14000	34000	14
02...	315	--	12.0	--	--	--	--	11
27...	420	8.2	10.5	--	44000	27000	4400	3.0
MAY								
22...	510	7.9	14.0	11.2	13000	1400	260	3.0
JUNE								
12...	460	8.1	21.5	12.0	12000	2900	120	4.0
JULY								
17...	490	8.6	19.5	10.8	29000	1700	840	.0
AUG.								
14...	460	7.8	21.5	9.2	17000	3600	2500	.0
SEP.								
11...	442	7.6	17.5	11.0	3600	830	1000	.0

01470700 TULPEHOCKEN CREEK AT BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJFL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT. 17...	0915	8000	17000	1300	.00	260	2400	2000	74000	17	3.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT. 17...	.0	E30	3.3	1.2	1.6	3.2	.0	.0	.0	.0	E50

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT. 17...	F0	79	<10	10	10	20	70	20	2	80

01470825 NORTHKILL CREEK AT BERNVILLE, PA.

LOCATION.--Lat 40°25'50", long 76°06'51", Berks County, at a retaining wall 670 ft (204 m) upstream from highway bridge on county road 0.2 mile (0.3 km) from Bernville, 0.4 mile (0.6 km) from mouth.

DRAINAGE AREA.--42.0 mi^2 (109 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1973.
Sediment records: October 1972 (partial-record station).

REMARKS.--Miscellaneous sediment samples for this station on page 360.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JUNE											
14...	1200	--	1.8	1.8	.08	.15	2.1	.54	2.2	.69	.04
JULY											
18...	1100	45	2.3	1.6	.04	.06	.80	.68	.84	.74	.06
AUG.											
22...	1030	75	1.8	1.7	.05	.05	.29	.36	.34	.41	.10
SEP.											
19...	0930	74	1.0	.68	.05	.35	.46	.44	.51	.79	.07

DATE	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE											
14...	.01	.02	.01	250	7.3	17.0	10.6	21000	1400	4000	--
JULY											
18...	.02	.04	.01	--	7.2	18.0	9.4	--	--	--	--
AUG.											
22...	.03	.08	.02	220	7.4	19.5	8.4	--	--	--	3.0
SEP.											
19...	.04	.00	.00	190	7.5	20.0	6.6	--	--	--	5.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT.									
17...	0915	10	118	.79	.63	--	--	.02	.03
NOV.									
21...	1110	215	120	1.6	1.4	--	--	.02	.02
DEC.									
19...	1100	140	186	3.6	3.2	--	--	.05	.08
JAN.									
16...	1000	40	40	3.4	3.2	--	--	.03	.04
FEB.									
13...	1045	200	32	3.6	3.6	--	--	.07	.05
MAR.									
13...	1040	80	18	3.2	2.7	--	--	.03	.11
APR.									
01...	2040	630	--	1.0	--	--	--	.42	--
02...	1345	430	--	2.0	--	--	--	.11	--
27...	2020	130	--	1.7	--	--	--	.31	--
MAY									
22...	1145	78	45	1.4	1.4	--	--	.09	.09
JUNE									
12...	1330	73	--	--	2.4	.00	2.4	--	.08
JULY									
17...	1120	39	--	--	1.9	.00	1.9	--	.03
AUG.									
14...	1045	10	--	--	4.1	.00	4.1	--	.31
SEP.									
11...	1100	10	90	--	.91	.00	.92	--	.06

01470825 NORTHKILL CREEK AT BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
OCT.									
17...	.25	.53	.27	.56	--	.07	.03	.04	.03
NOV.									
21...	.79	.70	.81	.72	--	.02	.02	.03	.02
DEC.									
19...	1.1	.55	1.2	.63	--	.02	.01	.02	.01
JAN.									
16...	.12	.19	.15	.23	--	.07	.00	.05	.00
FEB.									
13...	.55	.81	.62	.86	--	.07	.01	.02	.00
MAR.									
13...	1.2	1.2	1.3	1.3	--	.03	.00	.01	.00
APR.									
01...	5.2	--	5.6	--	--	1.6	--	.32	--
02...	.84	--	.95	--	--	.17	--	.04	--
27...	.92	--	1.2	--	--	.15	--	.07	--
MAY									
22...	.13	.13	.22	.22	--	.06	.03	.02	.01
JUNE									
12...	.31	--	.60	--	2.8	.04	--	--	.01
JULY									
17...	.21	--	24	--	2.1	.03	--	--	.03
AUG.									
14...	.19	--	.50	--	4.6	.12	--	--	.06
SEP.									
11...	.25	--	.31	--	1.2	.07	--	--	.06

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
17...	185	7.3	12.0	7.8	1100	310	1500	3.5
NOV.								
21...	140	7.6	6.0	12.6	4900	930	1500	5.0
DEC.								
19...	140	8.2	4.0	13.4	1800	630	230	2.0
JAN.								
16...	120	7.4	4.5	15.2	480	340	180	2.0
FEB.								
13...	150	7.2	.5	15.4	480	340	180	2.5
MAR.								
13...	135	7.5	9.5	13.6	4000	1200	84	2.0
APR.								
01...	115	6.8	10.0	--	21000	E14000	41000	34
02...	120	--	10.0	--	--	--	--	8.0
27...	120	7.6	11.5	--	14000	7600	5200	4.0
MAY								
22...	120	7.3	15.0	12.4	4600	660	280	3.0
JUNE								
12...	130	7.6	22.0	12.6	8300	3700	250	5.5
JULY								
17...	160	7.7	21.5	10.0	14000	1500	1200	.0
AUG.								
14...	170	6.9	22.0	8.6	35000	130	14000	1.0
SEP.								
11...	215	6.8	16.5	11.0	2500	1100	1400	.0

01470825 NORTHKILL CREEK AT BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT.											
17...	1000	8700	21000	600	.00	260	2400	550	72000	24	<.1

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT.											
17...	9.5	E20	4.7	2.5	1.0	23	.0	.0	.0	.0	E80

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
17...	E0	17	<10	10	10	20	60	<.5	20	3	80

01470850 LICKING CREEK NEAR BERNVILLE, PA.

LOCATION.--Lat 40°24'34", long 76°03'43", Berks County, at steel culvert on dirt road 3.3 miles (5.3 km) southeast of Bernville, 0.4 mile (0.6 km) northeast of Mount Pleasant, and 0.8 mile (1.2 km) above mouth.

DRAINAGE AREA.--2.81 mi^2 (7.28 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to May 1973 (discontinued).
Sediment records: October 1972 (partial-record station) (discontinued).

REMARKS.--Miscellaneous sediment data for this station on page 360.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUNE 14...	1300	--	4.7	4.7	.03	.04	1.2	1.2	1.2	1.2	.08
JULY 18...	1200	80	3.2	3.2	.13	.00	1.0	.69	1.1	.69	.07
AUG. 22...	1230	98	4.7	4.7	.00	.01	.00	.01	.00	.02	.06
SEP. 19...	1130	100	5.0	4.7	.02	.20	.23	.37	.25	.57	.07

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 14...	.04	.04	.02	250	7.5	16.0	10.0	7100	3400	6900	--
JULY 18...	.03	.04	.02	--	7.4	13.5	9.0	--	--	--	--
AUG. 22...	.03	.05	.04	325	7.8	18.0	10.0	--	--	--	2.0
SEP. 19...	.05	.02	.01	300	7.6	15.5	9.2	--	--	--	3.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT. 17...	1200	3.6	103	5.2	5.0	.02	.03	.32	.64	.34	.67	.08
NOV. 21...	1230	6.2	62	2.2	2.2	.09	.06	.68	.52	.77	.58	.09
DEC. 19...	1245	6.0	76	4.1	4.1	.06	.09	.48	.22	.54	.31	.07
JAN. 16...	1200	5.6	88	6.3	5.7	.01	.03	.18	.25	.19	.28	.08
FEB. 13...	1115	5.6	84	5.6	5.2	.00	.03	.52	.37	.52	.40	.07
MAR. 13...	1140	4.5	74	5.0	5.0	.15	.13	1.6	1.5	1.7	1.7	.08
APR. 01...	2015	29	--	2.0	--	.76	--	7.6	--	8.4	--	3.1
02...	1400	14	--	4.5	--	.11	--	1.1	--	1.2	--	.24
27...	2220	8.5	--	4.5	--	.47	--	.84	--	1.3	--	.18
MAY 22...	1310	4.2	--	4.5	4.5	.22	.09	.13	.29	.35	.38	.12

01470850 LICKING CREEK NEAR BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
17...	.05	.08	.04	290	7.5	14.0	10.0	1200	570	1100	2.5
NOV.											
21...	.05	.08	.04	250	7.1	8.0	11.2	830	320	280	6.0
DEC.											
19...	.04	.06	.04	280	7.8	5.0	12.6	1000	120	87	3.0
JAN.											
16...	.03	.04	.02	290	7.3	8.0	11.8	160	90	61	2.5
FEB.											
13...	.03	.04	.02	310	7.9	5.5	13.4	250	65	52	2.5
MAR.											
13...	.03	.05	.02	270	7.4	11.5	11.2	2300	130	45	2.0
APR.											
01...	--	.90	--	160	7.0	11.0	--	E81000	E70000	E85000	64
02...	--	.11	--	190	--	11.0	--	--	--	--	7.0
27...	--	.09	--	260	7.9	10.5	--	23000	20000	E1400	3.0
MAY											
22...	.06	.07	.05	260	7.6	18.5	11.0	2100	660	230	3.5

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJFL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT.											
17...	1200	7800	18000	1000	1.0	120	4100	1100	86000	29	1.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG'	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT.											
17...	.9	E10	4.8	2.0	.9	14	.0	.0	.0	.0	E100

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
17...	E0	10	<10	20	10	20	80	<.5	10	0	80

01470860 SPRING CREEK NEAR BERNVILLE, PA.

LOCATION.--Lat 40°23'24", long 76°04'40", Berks County, at single-span steel bridge 3.8 miles (6.1 km) southeast of Bernville, 1.2 mile (1.9 km) southwest of Mount Pleasant, and 1.5 mile (2.4 km) above mouth.

DRAINAGE AREA.--30.5 mi^2 (79.0 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to July 1973 (discontinued).
Sediment records: October 1972 (partial-record station) (discontinued).

REMARKS.--Miscellaneous sediment data for this station on page 360.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JUNE 14...	1500	--	4.1	3.8	.08	.05	1.3	1.2	1.4	1.2	.22
JULY 18...	1430	86	2.9	2.9	.02	.04	.96	.97	.98	1.0	.15
AUG. 22...	1300	116	4.3	4.5	.00	.03	.23	.23	.23	.26	.22
SEP. 19...	1400	115	4.1	3.4	.22	.24	.38	.46	.60	.70	.28

DATE	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 14...	.22	.22	.19	600	8.0	19.5	10.0	2300	510	1400	--
JULY 18...	.08	.09	.07	--	7.4	17.0	9.2	--	--	--	--
AUG. 22...	.20	.22	.18	380	8.2	18.5	9.2	--	--	--	3.0
SEP. 19...	.25	.22	.21	330	8.1	19.0	10.2	--	--	--	4.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT. 17...	1415	11	120	3.6	3.6	--	--	.04	.00
NOV. 21...	1430	63	65	1.6	1.7	--	--	.05	.05
DEC. 19...	1445	88	76	4.1	3.6	--	--	.07	.08
JAN. 16...	1415	52	88	5.4	4.7	--	--	.01	.10
FEB. 13...	1345	75	94	4.5	4.5	--	--	.09	.10
MAR. 13...	1400	48	80	4.1	4.1	--	--	.01	.03
APR. 01...	2110	326	--	1.9	--	--	--	.46	--
02...	1420	274	--	2.5	--	--	--	.16	--
27...	2325	112	--	1.2	--	--	--	.17	--
MAY 22...	1530	50	--	3.2	1.8	--	--	.17	.07
JUNE 12...	1500	--	--	--	3.4	.01	3.4	--	.09
JULY 17...	1400	--	--	--	3.9	.00	3.9	--	.01

01470860 SPRING CREEK NEAR BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT.									
17...	.44	.49	.48	.49	--	.35	.33	.33	.32
NOV.									
21...	.55	.52	.60	.57	--	.15	.13	.13	.11
DEC.									
19...	.82	.53	.89	.61	--	.10	.09	.10	.09
JAN.									
16...	1.6	1.1	1.6	1.2	--	.14	.11	.11	.09
FEB.									
13...	.20	.69	.29	.79	--	.16	.13	.13	.10
MAR.									
13...	1.5	1.3	1.6	1.4	--	.16	.14	.15	.14
APR.									
01...	5.3	--	5.8	--	--	2.0	--	.72	--
02...	1.1	--	1.3	--	--	.27	--	.13	--
27...	1.0	--	1.2	--	--	.22	--	.14	--
MAY									
22...	.22	.30	.39	.37	--	.21	.17	.19	.17
JUNE									
12...	.31	--	.31	--	3.8	.17	--	--	.16
JULY									
17...	.23	--	.24	--	4.1	.14	--	--	.12

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
17...	355	8.3	16.0	13.6	2900	590	620	4.0
NOV.								
21...	270	6.9	6.5	12.0	700	640	500	7.0
DEC.								
19...	300	8.0	5.5	13.0	7700	2300	520	3.5
JAN.								
16...	280	8.1	7.0	13.6	210	180	88	3.0
FEB.								
13...	340	8.1	5.0	14.2	100	E14	100	5.0
MAR.								
13...	305	8.5	13.0	14.2	1400	77	53	1.0
APR.								
01...	190	7.9	11.0	--	39000	24000	55000	38
02...	190	--	11.0	--	--	--	--	6.0
27...	240	7.6	10.0	--	30000	8300	E1100	3.5
MAY								
22...	270	7.6	19.0	14.2	1500	400	220	4.0
JUNE								
12...	290	8.4	24.0	12.6	4900	2000	150	3.0
JULY								
17...	310	8.3	19.0	12.2	4600	1500	760	.0

01470860 SPRING CREEK NEAR BERNVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT.											
17...	1415	6800	19000	900	1.0	230	1900	970	50000	15	1.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT.											
17...	.7	E1	.5	.3	.0	.7	.0	.0	.0	.0	E10

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT.											
17...	E0	9	<10	10	10	20	70	<.5	10	6	80

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.

LOCATION.--Lat 40°22'00", long 76°01'16", Berks County, 1.0 mile (1.6 km) downstream from gaging station at Rebers Bridge, 1.0 mile (1.6 km) east of Blue Marsh, 3 miles (4.8 km) north of Sinking Spring, and 5.5 miles (8.8 km) northwest of Reading.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--Chemical anlayses: June 1972 to September 1973.
Water temperatures: October 1968 to September 1973.
Sediment records: May to September 1973.

EXTREMES.

Period of record:
Water temperatures (1968-73): Maximum, 29.5°C July 8, 26, 1971; minimum, freezing point on several days during December 1970, January, March 1971.

REMARKS.--Sediment data for this station on page 335. Temperature recorder located at gaging station 1.0 mile (1.6 km) upstream from sampling site.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
JUNE 14...	1400	--	4.5	4.5	.08	.16	1.3	.99	1.4	1.2	.13
JULY 18...	1350	114	2.9	2.9	.00	.03	.66	.63	.66	.66	.14
AUG. 22...	1430	145	5.0	4.5	.00	.00	.50	.56	.50	.56	.11
SEP. 19...	1200	156	4.3	4.1	.04	.18	.60	.28	.64	.46	.18

DATE	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE 14...	.08	.11	.07	725	8.0	18.5	10.7	3600	800	1900	--
JULY 18...	.05	.07	.05	--	7.8	18.0	9.0	--	--	--	--
AUG. 22...	.11	--	.11	550	8.0	22.5	11.8	--	--	--	2.0
SEP. 19...	.15	.11	.11	430	7.7	20.5	8.6	--	--	--	4.0

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT.									
17...	1300	79	158	4.5	4.1	--	--	.00	.06
NOV.									
21...	1330	571	74	1.9	1.9	--	--	.07	.05
DEC.									
19...	1410	511	94	4.5	4.5	--	--	.34	.18
JAN.									
16...	1300	324	122	5.4	5.2	--	--	.04	.04
FEB.									
13...	1245	364	138	5.4	5.4	--	--	.08	.00
MAR.									
13...	1300	320	104	4.7	4.5	--	--	.00	.03
APR.									
01...	2140	863	--	2.7	--	--	--	.16	--
02...	1500	1550	--	3.4	--	--	--	.22	--
27...	2250	516	--	4.5	--	--	--	.12	--
MAY									
22...	1345	326	--	3.4	--	--	--	.10	--
JUNE									
12...	1430	355	--	--	4.2	.01	4.2	--	.05
JULY									
17...	1310	235	--	--	4.7	.00	4.7	--	.00
AUG.									
14...	1130	173	--	--	4.2	.00	4.2	--	.25
SEP.									
11...	1200	92	164	--	4.5	.00	4.5	--	.03

DATE	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
OCT.									
17...	.43	.95	.43	1.0	--	.11	.10	.10	.09
NOV.									
21...	.58	.36	.65	.41	--	.13	.07	.10	.06
DEC.									
19...	.98	.70	1.3	.88	--	.06	.04	.06	.04
JAN.									
16...	.07	.31	.11	.34	--	.08	.08	.04	.04
FEB.									
13...	.86	.34	.94	.34	--	.08	.04	.05	.04
MAR.									
13...	1.5	1.5	1.5	1.6	--	.06	.04	.05	.04
APR.									
01..	1.8	--	2.0	--	--	.29	--	.11	--
02...	1.5	--	1.7	--	--	.41	--	.16	--
27...	1.0	--	1.1	--	--	.17	--	.11	--
MAY									
22...	.12	--	.22	--	--	.13	--	.09	--
JUNE									
12...	.32	--	.38	--	4.6	.12	--	--	.09
JULY									
17...	.19	--	.19	--	4.9	.06	--	--	.05
AUG.									
14...	.23	--	.48	--	4.7	.19	--	--	.14
SEP.									
11...	.18	--	.21	--	4.7	.10	--	--	.10

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 17...	400	8.3	13.0	13.4	310	71	150	4.0
NOV. 21...	275	7.3	6.5	12.6	7300	2500	1600	6.5
DEC. 19...	325	8.0	5.0	13.4	4600	800	460	3.5
JAN. 16...	380	7.2	4.5	14.0	--	63	100	2.5
FEB. 13...	390	8.2	2.5	15.0	75	49	43	2.0
MAR. 13...	340	8.6	12.0	16.8	3200	190	120	2.0
APR. 01...	250	7.8	11.0	--	7500	4400	8100	20
02...	200	--	10.5	--	--	--	--	12
27...	320	8.1	11.0	--	24000	12000	2200	3.0
MAY 22...	320	7.7	17.5	15.0	550	340	E68	4.5
JUNE 12...	350	8.2	24.0	11.4	64000	870	110	--
JULY 17...	400	8.7	21.0	14.4	7200	1400	160	.0
AUG. 14...	330	7.8	22.0	10.0	11000	E5100	1300	.0
SEP. 11...	280	8.1	18.5	13.2	340	160	280	.0

DATE	TIME	TOTAL ALUMINUM IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	LOSS ON IGNITION IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)
OCT. 17...	1300	8700	18000	1000	6.0	460	3400	1100	94000	26	4.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
OCT. 17...	.0	F10	4.8	2.0	.9	14	.0	.0	.0	.0	E100

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
OCT. 17...	E0	32	<10	10	10	30	150	<.5	10	2	90

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	280	316	356	403
2	---	---	---	---	---	---	---	---	302	327	340	---
3	---	---	---	---	---	---	---	---	310	292	366	---
4	---	---	---	---	---	---	---	---	---	---	---	417
5	---	---	---	---	---	---	---	---	---	313	385	427
6	---	---	---	---	---	---	---	---	319	333	379	412
7	---	---	---	---	---	---	---	---	230	---	402	417
8	---	---	---	---	---	---	---	---	286	317	395	---
9	---	---	---	---	---	---	---	---	308	341	398	---
10	---	---	---	---	---	---	---	---	323	349	408	420
11	---	---	---	---	---	---	---	---	333	336	264	419
12	---	---	---	---	---	---	---	---	338	---	385	403
13	---	---	---	---	---	---	---	---	281	343	384	405
14	---	---	---	---	---	---	---	---	354	355	404	---
15	---	---	---	---	---	---	---	---	364	345	404	---
16	---	---	---	---	---	---	---	---	377	352	403	298
17	---	---	---	---	---	---	---	---	370	343	388	325
18	---	---	---	---	---	---	---	---	---	340	416	306
19	---	---	---	---	---	---	---	---	371	344	410	308
20	---	---	---	---	---	---	---	323	376	360	---	343
21	---	---	---	---	---	---	---	281	---	---	414	349
22	---	---	---	---	---	---	---	291	247	355	409	---
23	---	---	---	---	---	---	---	298	336	366	415	337
24	---	---	---	---	---	---	---	305	356	352	418	348
25	---	---	---	---	---	---	---	303	---	363	419	356
26	---	---	---	---	---	---	---	312	371	362	411	368
27	---	---	---	---	---	---	---	300	372	352	403	376
28	---	---	---	---	---	---	---	---	377	369	385	379
29	---	---	---	---	---	---	---	200	147	381	---	---
30	---	---	---	---	---	---	---	238	284	386	413	364
31	---	---	---	---	---	---	---	230	---	370	416	---

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	8.1	8.2	8.2	8.4
2	---	---	---	---	---	---	---	---	8.2	8.2	8.2	---
3	---	---	---	---	---	---	---	---	8.2	8.0	8.2	---
4	---	---	---	---	---	---	---	---	---	---	---	8.4
5	---	---	---	---	---	---	---	---	---	8.2	8.2	8.4
6	---	---	---	---	---	---	---	---	8.2	8.3	8.2	8.4
7	---	---	---	---	---	---	---	---	7.9	---	8.3	8.4
8	---	---	---	---	---	---	---	---	8.1	8.3	8.3	---
9	---	---	---	---	---	---	---	---	8.2	8.2	8.3	---
10	---	---	---	---	---	---	---	---	8.3	8.2	8.3	8.4
11	---	---	---	---	---	---	---	---	8.3	8.3	8.1	8.4
12	---	---	---	---	---	---	---	---	8.3	---	8.3	8.3
13	---	---	---	---	---	---	---	---	8.1	8.3	8.3	8.3
14	---	---	---	---	---	---	---	---	8.3	8.2	8.4	---
15	---	---	---	---	---	---	---	---	8.3	8.3	8.4	---
16	---	---	---	---	---	---	---	---	8.3	8.3	8.4	8.1
17	---	---	---	---	---	---	---	---	8.3	8.3	8.4	8.2
18	---	---	---	---	---	---	---	---	---	8.3	8.4	8.2
19	---	---	---	---	---	---	---	---	8.3	8.2	8.4	8.2
20	---	---	---	---	---	---	---	8.5	8.3	8.2	---	8.3
21	---	---	---	---	---	---	---	8.3	---	---	8.4	8.3
22	---	---	---	---	---	---	---	8.4	8.0	8.2	8.4	---
23	---	---	---	---	---	---	---	8.3	8.3	8.2	8.4	8.3
24	---	---	---	---	---	---	---	8.4	8.3	8.2	8.4	8.3
25	---	---	---	---	---	---	---	8.5	---	8.2	8.4	8.3
26	---	---	---	---	---	---	---	8.3	8.3	8.2	8.4	8.4
27	---	---	---	---	---	---	---	8.3	8.3	8.2	8.4	8.4
28	---	---	---	---	---	---	---	---	8.3	8.2	8.3	8.4
29	---	---	---	---	---	---	---	8.0	7.4	8.3	---	---
30	---	---	---	---	---	---	---	8.2	8.2	8.3	8.4	8.4
31	---	---	---	---	---	---	---	8.1	---	8.3	8.4	---

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	6.0	2.5	3.5
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.5	2.0	4.0	11.0	9.5	10.0	14.5	10.5	12.5
2	---	---	---	8.0	4.0	6.0	10.0	9.0	9.5	16.0	7.0	14.0
3	---	---	---	7.0	5.5	6.0	9.5	8.5	9.0	15.5	13.5	14.5
4	---	---	---	8.0	5.5	6.5	9.0	7.5	8.0	13.5	10.5	12.0
5	---	---	---	7.5	7.0	7.5	9.0	7.0	8.0	11.5	9.5	10.5
6	---	---	---	7.5	6.5	6.5	11.0	7.0	9.0	16.0	9.5	12.5
7	---	---	---	7.0	6.0	6.5	12.5	9.0	10.5	17.5	11.0	14.5
8	---	---	---	9.0	7.0	8.0	11.5	8.5	9.5	14.5	12.5	13.0
9	---	---	---	10.0	7.0	8.5	11.0	7.0	9.0	16.0	12.5	14.0
10	---	---	---	10.0	7.5	9.0	10.0	8.0	9.0	18.5	13.0	15.5
11	---	---	---	9.5	8.0	8.5	9.0	6.5	7.5	18.0	15.5	16.5
12	---	---	---	9.5	8.0	9.0	8.0	6.0	7.0	15.0	13.0	14.0
13	---	---	---	11.5	8.5	10.0	9.0	5.5	7.5	14.5	12.0	13.5
14	---	---	---	9.5	8.0	9.0	11.0	6.5	9.0	14.5	11.5	13.0
15	4.0	2.0	3.0	9.0	8.0	8.5	12.5	7.5	10.0	14.0	12.5	13.0
16	3.5	2.0	3.0	10.0	8.0	9.0	13.5	9.0	11.5	16.0	10.5	13.0
17	2.0	0.0	0.5	13.0	9.5	11.5	13.0	11.5	12.5	14.5	12.5	13.5
18	1.5	0.0	0.5	9.5	4.5	6.5	14.5	12.0	13.0	13.0	10.0	11.5
19	2.0	0.0	1.0	5.5	3.5	4.5	16.0	13.0	14.5	15.0	9.0	12.0
20	4.0	0.5	2.5	8.5	4.0	6.5	17.0	13.0	15.0	13.5	12.5	13.0
21	5.5	3.0	4.0	8.0	0.0	6.0	14.5	12.5	13.5	13.0	11.5	12.5
22	5.5	3.0	4.0	7.0	0.0	6.0	18.5	12.5	15.5	17.0	11.5	14.0
23	4.5	2.0	4.0	8.0	3.5	6.0	17.0	14.5	16.0	15.5	13.0	14.0
24	4.5	1.0	2.5	10.0	4.5	7.5	16.0	13.0	14.5	13.0	12.5	12.5
25	5.0	1.0	3.0	8.5	6.0	7.5	14.0	12.0	13.0	12.5	11.5	12.0
26	5.0	3.5	4.0	9.5	7.5	8.5	11.5	10.5	11.0	13.0	11.5	12.5
27	4.5	2.5	3.5	12.5	9.0	10.5	10.5	9.5	9.5	12.0	11.0	11.5
28	5.5	0.5	3.0	11.0	7.5	9.5	10.5	9.5	9.5	15.5	11.0	12.5
29	---	---	---	11.0	7.5	9.5	13.0	8.5	10.5	16.5	13.5	14.0
30	---	---	---	9.5	9.0	9.0	12.0	9.0	10.5	16.0	13.0	14.5
31	---	---	---	11.0	9.0	10.0	---	---	---	16.0	13.5	14.5
MONTH	---	---	---	13.0	0.0	8.0	18.5	5.5	11.0	18.5	7.0	13.0

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	13.0	14.5	20.5	17.0	19.0	22.5	20.5	21.0	26.5	21.5	24.0
2	17.5	14.5	16.0	21.0	17.5	19.0	23.0	19.5	21.0	27.0	22.0	24.5
3	17.5	15.0	16.5	20.0	18.5	19.0	23.0	20.5	21.5	26.5	22.0	24.5
4	20.0	15.0	17.5	21.5	18.5	20.0	24.5	19.0	21.5	27.5	22.0	25.0
5	20.0	11.5	17.0	22.5	19.0	20.5	25.0	18.5	22.0	27.0	22.5	25.0
6	21.0	17.0	19.0	22.0	18.0	20.0	25.0	18.5	22.0	25.0	22.0	24.0
7	20.5	17.5	19.0	23.0	18.0	20.5	25.5	19.5	22.5	24.0	19.0	21.5
8	20.0	17.0	18.5	24.0	19.0	21.5	26.5	21.5	23.5	22.5	17.0	20.0
9	21.5	13.0	19.5	25.0	20.0	22.5	27.0	21.5	24.5	20.5	17.5	19.0
10	22.5	19.0	20.5	25.5	21.5	23.0	27.5	22.0	24.5	20.5	15.0	17.5
11	23.0	18.5	21.0	23.0	19.5	21.5	24.5	21.5	22.5	21.5	15.0	18.0
12	24.0	20.0	21.5	21.0	17.0	19.0	24.0	20.5	22.0	21.0	17.0	19.0
13	21.0	19.5	20.5	22.0	16.5	19.0	24.5	19.5	22.0	19.5	14.0	17.0
14	21.5	17.5	19.5	25.0	18.0	21.5	23.0	20.5	21.5	17.5	16.5	17.0
15	21.5	16.5	19.0	22.0	20.0	21.0	23.0	20.0	21.5	17.5	16.0	17.0
16	19.0	17.5	18.0	24.0	18.0	20.5	22.0	20.0	21.0	18.0	15.0	16.5
17	18.0	16.0	17.0	21.5	18.5	20.0	23.0	19.0	21.0	17.0	15.5	16.5
18	17.0	15.5	16.0	23.5	17.5	20.5	22.0	19.5	21.0	18.0	15.5	16.5
19	17.0	14.5	15.5	25.0	18.5	21.5	24.0	18.5	21.5	17.0	14.5	15.5
20	20.5	16.0	18.0	24.0	20.0	22.0	22.0	18.5	21.0	16.5	13.5	15.0
21	20.0	17.5	18.5	22.0	19.5	21.0	21.5	18.5	20.0	15.0	13.5	14.5
22	19.5	17.5	18.5	22.0	18.5	20.5	22.0	18.0	20.0	15.0	13.5	14.5
23	21.0	16.5	18.5	24.0	19.0	20.5	21.5	16.0	19.0	19.0	15.0	16.5
24	20.5	17.5	19.0	24.0	18.0	21.0	20.5	16.5	18.5	19.0	15.0	17.0
25	20.5	17.5	18.5	23.0	18.0	20.5	23.0	17.0	20.0	17.0	16.0	16.5
26	21.0	17.5	19.0	22.0	19.5	20.5	25.0	18.5	21.5	18.0	15.0	16.5
27	22.5	18.0	20.0	25.0	19.5	22.0	25.5	20.5	23.0	19.5	15.0	17.0
28	21.5	19.0	20.5	26.0	20.5	23.0	27.5	22.0	25.0	19.5	16.5	18.0
29	20.0	18.0	19.0	24.0	21.0	22.5	28.0	22.0	25.0	18.0	17.0	17.5
30	20.5	17.5	18.5	25.0	18.5	22.0	28.0	22.5	25.5	18.5	15.0	16.5
31	---	---	---	25.0	19.0	22.0	27.5	22.5	25.0	---	---	---
MONTH	24.0	11.5	18.5	26.0	16.5	21.0	28.0	16.0	22.0	27.5	13.5	18.5

01473000 PERKIOMEN CREEK AT GRATERFORD, PA.

LOCATION.--Lat 40°13'46", long 75°27'07", Montgomery County, on left bank 1,650 ft (503 m) upstream from highway bridge at Graterford, 0.5 mile (0.8 km) upstream from Landis Brook, and 2.5 miles (4.0 km) north of Collegeville.

DRAINAGE AREA.--279 mi^2 (723 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973 (discontinued).
Sediment records: October 1964 to May 1966, January 1971 to September 1973 (discontinued).

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 409 micromhos Oct. 8; minimum daily, 113 micromhos Aug. 1.

Period of record:
Specific conductance: Maximum daily, 409 micromhos Oct. 8, 1972; minimum daily, 113 micromhos Aug. 1, 1973.

REMARKS.--Sediment data for this station on page 337. Unpublished records of specific conductance, pH, and temperature of sediment samples available in the WRD office at Harrisburg, Pa.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	318	203	191	209	212	152	201	160	---	113	237
2	314	303	188	197	127	228	131	---	156	234	213	237
3	---	316	199	203	156	222	164	204	194	194	248	238
4	292	321	203	176	180	227	183	196	216	153	255	236
5	301	322	220	173	175	231	166	205	170	164	253	238
6	---	371	227	178	192	---	178	202	217	196	271	239
7	345	364	---	191	196	---	188	215	223	189	284	238
8	409	260	191	214	193	225	178	---	228	172	281	236
9	331	171	162	203	166	205	165	220	222	175	285	230
10	312	219	178	216	187	209	145	217	218	217	287	236
11	294	252	184	225	197	---	169	214	216	224	285	236
12	---	258	188	224	199	---	---	222	231	229	286	234
13	271	205	207	213	204	204	166	215	224	249	286	220
14	272	133	211	---	197	218	---	221	206	254	286	231
15	---	167	198	219	---	---	---	223	216	247	285	296
16	282	189	191	221	207	215	196	213	---	254	276	297
17	280	218	174	216	---	211	---	---	---	---	236	---
18	272	213	190	228	211	195	---	210	215	254	236	299
19	276	226	207	210	205	199	---	220	236	---	236	297
20	279	154	208	208	---	200	---	207	220	250	236	299
21	319	199	214	204	218	198	---	206	217	---	237	299
22	306	143	143	219	211	217	---	213	232	---	---	301
23	291	202	156	---	220	215	---	205	247	254	236	302
24	300	206	187	205	219	210	194	---	214	---	237	302
25	322	221	182	208	225	224	170	---	---	250	238	301
26	291	208	198	220	214	188	---	---	---	---	235	---
27	313	186	201	175	217	185	181	---	---	---	228	---
28	288	196	197	151	---	193	167	149	232	---	234	---
29	300	211	187	151	---	186	174	159	232	---	---	---
30	374	281	198	183	---	216	184	198	163	---	---	---
31	323	---	211	188	---	213	---	213	---	---	---	---

01473120 SKIPPACK CREEK NEAR COLLEGEVILLE, PA.

LOCATION.--Lat 40°09'52", long 75°26'01", Montgomery County, at gaging station on right bank 60 ft (18 m) downstream from two-span highway bridge, 1.5 miles (2.4 km) upstream from mouth, and 2 miles (3.2 km) southwest of Collegeville.

DRAINAGE AREA.--53.7 mi^2 (86.4 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1969 to September 1971, October 1971 to September 1972 (partial-record station), October 1972 to June 1973 (discontinued).
Sediment records: October 1970 to September 1971 (partial-record station), October 1971 to June 1973 (discontinued).

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 937 micromhos Oct. 4; minimum daily, 122 micromhos Feb. 16.
Water temperatures: Maximum daily, 30.5°C June 11; minimum daily, freezing point Jan. 7, 10-12.

Period of record:
Specific conductance (1972-73): Maximum daily, 937 micromhos Oct. 4, 1972; minimum daily, 122 micromhos Feb. 16, 1973.
Water temperatures (1972-73): Maximum daily, 30.5°C June 11, 1973; minimum daily, freezing point Jan. 7, 10-12, 1973.

REMARKS.--Sediment data for this station on page 340.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973 (ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	763	446	230	301	265	---	---	276	287	---	---	---
2	854	483	295	301	284	---	177	274	284	---	---	---
3	872	550	305	292	180	408	233	280	314	---	---	---
4	937	629	299	289	233	446	240	295	---	---	---	---
5	919	706	309	253	245	345	210	293	307	---	---	---
6	899	683	316	256	265	332	239	304	279	---	---	---
7	822	---	246	285	---	330	254	297	---	---	---	---
8	345	247	283	---	---	304	222	---	340	---	---	---
9	347	261	203	288	---	303	214	317	366	---	---	---
10	364	327	241	331	---	319	149	---	364	---	---	---
11	385	357	244	338	280	292	216	292	331	---	---	---
12	404	361	284	363	295	306	237	322	341	---	---	---
13	441	363	283	379	330	307	250	360	343	---	---	---
14	459	126	294	383	---	321	260	324	283	---	---	---
15	495	247	281	390	---	319	258	332	368	---	---	---
16	529	385	231	265	122	328	257	357	---	---	---	---
17	552	307	263	358	302	300	272	374	---	---	---	---
18	613	331	279	353	356	268	275	369	424	---	---	---
19	673	318	281	363	354	288	284	302	---	---	---	---
20	775	164	290	368	---	300	307	305	---	---	---	---
21	886	252	306	387	354	308	303	370	396	---	---	---
22	854	294	166	324	346	312	311	---	221	---	---	---
23	890	311	233	240	360	335	312	358	---	---	---	---
24	835	315	252	296	364	336	328	398	127	---	---	---
25	804	312	251	---	373	345	282	319	205	---	---	---
26	759	208	274	312	363	217	207	330	---	---	---	---
27	730	261	281	295	360	254	248	316	---	---	---	---
28	657	294	287	208	---	270	199	183	---	---	---	---
29	461	301	285	162	---	---	243	234	---	---	---	---
30	403	307	290	---	---	---	250	260	---	---	---	---
31	423	---	293	254	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.5	8.0	5.0	10.5	1.0	---	---	16.0	22.0	---	---	---
2	12.0	9.5	5.0	6.5	2.0	---	10.0	16.0	18.5	---	---	---
3	12.5	10.0	7.5	5.5	5.0	5.5	9.0	18.0	20.0	---	---	---
4	12.0	11.0	---	3.5	3.5	7.0	8.0	14.0	---	---	---	---
5	16.0	11.0	7.5	5.0	4.5	7.5	7.5	12.5	23.0	---	---	---
6	16.5	10.0	8.5	3.0	5.0	6.5	11.0	15.5	22.0	---	---	---
7	17.0	---	6.5	0.0	---	6.0	10.0	18.0	---	---	---	---
8	14.0	11.5	4.0	---	---	7.5	10.0	---	24.5	---	---	---
9	12.5	10.0	6.5	1.5	---	8.5	10.0	16.0	26.0	---	---	---
10	10.0	10.0	8.0	0.0	---	11.0	10.5	---	25.0	---	---	---
11	10.0	9.0	6.5	0.0	0.5	9.0	7.5	18.0	30.5	---	---	---
12	11.5	10.5	4.5	0.0	2.0	9.5	7.5	18.0	30.0	---	---	---
13	12.0	10.0	6.5	---	2.5	10.0	10.0	17.5	23.5	---	---	---
14	9.5	10.5	6.5	1.5	---	10.0	10.5	17.5	26.5	---	---	---
15	10.0	8.0	4.0	2.0	---	10.0	14.0	15.5	24.0	---	---	---
16	10.0	6.5	3.0	1.5	3.5	10.0	12.5	16.5	---	---	---	---
17	11.0	7.5	1.0	2.0	5.5	14.0	14.5	14.5	---	---	---	---
18	9.5	6.5	1.0	0.5	2.0	6.5	18.5	14.5	20.0	---	---	---
19	7.0	4.5	1.0	2.0	1.5	6.5	19.0	12.5	---	---	---	---
20	5.0	5.5	4.5	1.0	---	9.0	19.5	15.5	---	---	---	---
21	4.0	4.5	5.0	0.5	2.0	7.5	17.0	14.0	24.5	---	---	---
22	6.5	3.0	3.5	4.0	3.5	6.0	20.5	---	22.0	---	---	---
23	9.0	3.5	6.0	5.0	4.5	8.5	18.5	16.0	---	---	---	---
24	13.0	4.0	5.0	4.5	2.5	10.0	21.0	14.5	19.5	---	---	---
25	11.0	4.0	5.5	---	3.0	9.0	17.0	13.0	20.0	---	---	---
26	12.0	10.0	6.0	2.5	5.0	8.0	12.0	12.5	---	---	---	---
27	10.5	8.0	5.5	4.5	2.5	9.0	11.0	12.5	---	---	---	---
28	12.0	8.0	5.0	4.5	---	7.5	11.0	13.0	---	---	---	---
29	13.0	6.0	3.5	3.5	---	---	14.5	17.0	---	---	---	---
30	13.0	4.0	3.5	---	---	---	13.5	22.0	---	---	---	---
31	8.5	---	5.5	3.0	---	---	---	---	---	---	---	---

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA.

LOCATION.--Lat 39°59'42", long 75°11'40", Philadelphia County, at Belmont Filter Plant, 1.6 miles (2.6 km) upstream from gaging station, located 40 ft (12 m) upstream from Fairmount Dam, 1,000 ft (305 m) upstream from Spring Garden Street Bridge, Philadelphia, and 8.2 miles (13.2 km) upstream from mouth.

DRAINAGE AREA.--1,890 mi^2 (4,900 km^2), at Fairmount Dam.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1973.
Water temperatures: October 1945 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 608 micromhos Nov. 6; minimum, 158 micromhos June 30.
Water temperatures: Maximum, 31.0°C Sept. 2-3; minimum, 1.5°C on several days during January and February.

Period of record:
Specific conductance (1964-73): Maximum, 972 micromhos June 25, 1965; minimum, 128 micromhos Sept. 14, 1971.
Dissolved oxygen (1966-73): Maximum, 14.9 mg/l July 1, 1966; minimum, 0.4 mg/l July 24, 1971.
pH (1968-73): Maximum, 10.1 Aug. 12, 1969; minimum, 6.3 June 7, 8, 1969.
Water temperatures: Maximum, 31.0°C July 20 and Aug. 7, 1955, Sept. 2-3, 1973; minimum, freezing point on many days during winter periods.

REMARKS.--Water-quality recorder located at Belmont raw-water pumping station on west side of river near Columbia Bridge.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 19...	1430	652	4.3	1.1	.65	.59	613	7.6
NOV. 16...	1520	8340	1.9	.81	.18	.13	233	6.8
FEB. 01...	1445	5440	2.7	.67	.17	.13	266	7.3
22...	1530	2960	1.1	.83	.24	.20	380	7.4
MAR. 22...	1450	3110	2.7	1.0	.20	.16	280	7.7
APR. 26...	1700	1690	1.8	.76	.28	.21	296	7.3
MAY 24...	1625	3010	1.1	1.1	.44	.32	298	7.2
JUNE 21...	1500	1940	--	1.3	.35	--	375	7.8
AUG. 02...	1200	12200	--	--	--	--	290	7.7
14...	1100	1900	--	--	--	--	420	7.6
SEP. 26...	1030	1350	3.2	.59	.34	.31	350	7.6

DATE	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	SUSPENDED SOLIDS (MG/L)
OCT. 19...	14.0	6	7.8	--	--	--	8.5	--
NOV. 16...	8.5	20	12.6	--	E5600	E6200	8.5	--
FEB. 01...	2.0	35	15.1	--	--	--	6.0	24
22...	6.0	3	12.6	--	E173	E107	7.5	--
MAR. 22...	8.0	4	11.6	--	--	--	--	3
APR. 26...	15.0	18	10.2	--	3600	2000	4.5	--
MAY 24...	17.0	15	10.4	--	1850	625	--	--
JUNE 21...	26.0	--	8.6	--	975	2500	1.6	--
AUG. 02...	27.0	--	9.2	3.9	E88000	E50000	--	96
14...	26.5	--	6.0	1.8	5500	5300	--	52
SEP. 26...	21.0	9	7.8	.8	850	100	7.0	22

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM PLUS POTAS-SIUM (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
FEB.										
01...	1445	19	8.2	18	53	0	43	46	14	--
MAR.										
22...	1450	25	9.5	18	54	--	44	60	17	--
JUNE										
21...	1500	37	13	--	92	0	75	63	22	.2
SEP.										
26...	1030	--	--	--	77	--	63	72	--	.2

DATE	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)
FEB.									
01...	.67	.00	164	81	38	2	4.3	.01	2
MAR.									
22...	.24	.80	181	100	57	9	1.7	.01	2
JUNE									
21...	--	1.1	261	146	70	--	2.0	.03	--
SEP.									
26...	.38	.59	236	141	78	--	3.1	.01	2

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
JUNE											
21...	1500	9.8	17	2.9	3.0	.23	3.2	.22	4.5	.23	226

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)
FEB.								
01...	1445	15	--	60	--	40	--	10
MAR.								
22...	1450	50	--	140	--	310	--	<10
JUNE								
21...	1500	0	--	--	--	190	--	0
SEP.								
26...	1030	--	360	--	390	--	5	--

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
FEB.							
01...	--	--	5	--	--	1	130
MAR.							
22...	--	--	3	--	--	3	180
JUNE							
21...	1	--	0	--	--	4	110
SEP.							
26...	--	0	--	10	1	--	--

DATE	TIME	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
MAR.									
22...	1450	200	3	<2.8	.6	2.3	<.5	1.9	<.5

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	528	514	524	288	270	277	316	281	303
2	---	---	---	520	516	518	295	266	282	286	275	279
3	---	---	---	514	469	493	292	281	287	274	264	267
4	---	---	---	502	467	478	306	288	297	272	264	268
5	---	---	---	530	500	520	318	306	313	273	261	268
6	---	---	---	608	533	577	334	315	326	270	264	267
7	---	---	---	604	596	600	331	257	289	281	270	275
8	---	---	---	599	399	511	276	248	259	288	281	285
9	---	---	---	354	234	283	274	195	216	291	287	289
10	---	---	---	318	262	290	225	200	211	294	289	292
11	---	---	---	268	261	264	228	219	223	294	294	---
12	---	---	---	290	268	277	239	224	231	---	---	---
13	---	---	---	297	283	290	251	240	243	---	---	---
14	---	---	---	300	280	---	260	251	257	---	---	---
15	---	---	---	---	---	---	274	261	269	383	381	---
16	570	562	---	---	---	---	280	234	253	387	377	383
17	577	571	575	---	---	---	259	236	251	384	378	381
18	580	576	578	---	---	---	289	262	274	402	380	391
19	578	566	572	---	---	---	314	288	303	410	397	401
20	589	569	579	261	199	---	326	307	317	411	401	405
21	592	587	590	260	202	221	328	319	324	401	378	387
22	590	581	585	283	261	274	317	228	280	382	367	378
23	579	567	571	297	285	293	263	225	239	369	325	351
24	573	568	571	293	283	287	265	259	263	362	319	346
25	571	565	567	293	286	290	265	253	258	348	314	330
26	581	570	576	---	---	---	263	253	257	313	287	297
27	583	566	579	271	257	---	285	265	275	293	284	288
28	583	519	557	285	274	281	296	283	290	291	224	241
29	558	511	532	297	279	290	309	296	302	274	171	216
30	524	509	515	292	271	281	317	308	311	238	178	207
31	512	487	498	---	---	---	322	312	317	251	216	241
MONTH	---	---	---	608	199	---	334	195	274	411	171	309

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	271	248	258	399	395	397	313	313	---	319	310	315
2	304	200	261	408	396	403	239	223	---	334	319	328
3	200	172	183	433	408	420	270	232	253	353	333	345
4	222	207	215	429	414	423	291	260	271	365	348	358
5	226	202	213	414	385	395	265	220	236	368	356	364
6	236	227	230	385	375	382	260	241	250	356	349	352
7	256	238	247	379	372	375	267	255	258	360	349	355
8	264	256	261	383	371	376	271	250	264	363	354	359
9	271	255	264	388	363	379	258	236	245	363	329	346
10	272	257	267	376	361	369	277	244	262	348	340	344
11	286	271	280	372	355	366	267	240	253	373	348	365
12	318	285	302	373	355	363	278	254	271	379	361	372
13	322	313	317	361	337	352	---	---	---	375	343	362
14	351	316	330	341	334	338	---	---	---	341	312	325
15	365	340	351	344	333	340	---	---	---	310	296	302
16	365	331	342	352	340	346	294	286	---	313	301	304
17	361	318	342	348	329	339	307	294	300	325	313	323
18	348	335	343	340	292	312	324	305	310	339	325	334
19	361	345	355	303	289	295	339	323	332	334	324	330
20	381	351	368	329	291	316	342	333	339	328	321	325
21	379	367	374	319	299	310	341	333	337	330	319	327
22	375	363	370	314	305	309	343	337	341	334	327	329
23	391	373	382	318	303	312	347	331	342	334	323	327
24	396	389	394	320	305	315	347	332	341	346	323	336
25	396	388	392	322	311	317	349	343	346	359	342	352
26	392	388	390	319	281	304	348	322	331	342	327	335
27	395	390	392	273	249	258	318	301	307	329	310	321
28	395	391	393	299	253	280	299	286	290	327	223	295
29	---	---	---	311	299	307	286	276	280	280	209	230
30	---	---	---	328	309	---	310	287	300	282	238	260
31	---	---	---	334	313	325	---	---	---	270	262	267
MONTH	396	172	315	433	249	344	349	220	294	379	209	329

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	270	264	267	250	223	240	463	450	454	530	523	527
2	284	264	275	250	239	---	447	177	303	534	525	528
3	298	281	288	264	256	---	284	229	261	569	535	551
4	305	298	302	277	216	---	406	287	349	541	526	534
5	313	304	307	---	---	---	425	401	416	557	531	546
6	322	310	314	---	---	---	394	336	357	562	550	555
7	335	324	332	---	---	---	342	335	338	562	534	549
8	363	335	353	---	---	---	355	337	348	537	519	530
9	364	311	340	317	311	---	353	335	---	541	508	533
10	321	299	315	327	317	323	369	365	---	535	499	---
11	346	318	334	335	306	327	378	368	---	---	---	---
12	340	333	337	340	328	335	414	411	---	---	---	---
13	351	291	336	345	334	339	449	418	436	---	---	---
14	299	248	276	361	347	354	447	429	434	---	---	---
15	335	293	323	360	347	352	446	421	437	---	---	---
16	372	336	352	377	362	370	420	399	413	---	---	---
17	378	370	373	376	306	366	402	387	393	379	362	---
18	387	352	372	382	370	375	400	382	387	366	318	338
19	353	348	350	389	380	383	431	406	423	317	310	313
20	366	354	363	396	384	390	439	427	436	337	308	321
21	368	364	366	408	393	399	443	428	432	359	339	348
22	369	352	362	411	392	402	442	432	436	372	353	359
23	398	300	371	426	407	414	446	434	438	393	376	387
24	291	253	265	415	373	400	450	439	445	387	366	376
25	323	239	291	395	379	389	455	445	449	377	364	371
26	304	237	264	408	400	406	464	445	454	392	375	382
27	361	299	333	416	405	408	486	464	478	394	382	387
28	377	338	370	438	419	432	502	487	495	399	387	396
29	386	185	290	448	437	445	521	503	514	429	398	412
30	220	158	186	460	445	452	524	499	520	445	432	439
31	---	---	---	465	456	462	527	522	524	---	---	---
MONTH	398	158	320	465	216	---	527	177	421	569	308	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.8	7.2	7.5	12.7	12.2	12.5	13.2	12.8	13.0
2	---	---	---	7.5	6.9	7.3	12.7	12.2	12.5	13.0	12.8	12.9
3	---	---	---	7.0	6.8	---	12.1	11.5	11.8	13.4	13.1	13.3
4	---	---	---	---	---	---	12.5	11.6	12.2	13.5	13.2	13.3
5	---	---	---	---	---	---	12.3	11.9	12.1	13.5	13.0	13.3
6	---	---	---	7.7	7.5	---	11.9	11.4	11.6	13.2	12.7	13.1
7	---	---	---	7.8	6.7	7.3	12.1	11.5	11.8	13.8	13.3	13.6
8	---	---	---	9.3	7.3	8.3	12.4	11.9	12.2	14.2	13.9	14.1
9	---	---	---	9.6	6.5	8.5	12.7	12.3	12.5	14.6	14.1	14.3
10	---	---	---	10.0	8.4	9.1	12.5	11.9	12.2	14.5	14.0	14.4
11	---	---	---	10.3	9.2	10.1	12.2	11.8	12.0	14.4	14.2	14.3
12	---	---	---	10.7	9.2	10.0	12.4	12.1	12.2	14.3	14.0	14.1
13	---	---	---	10.6	10.4	10.5	12.2	11.8	12.0	14.4	14.2	14.3
14	---	---	---	10.4	10.2	---	11.9	11.5	11.8	14.4	14.2	14.3
15	---	---	---	---	---	---	11.6	11.3	11.5	14.2	13.7	14.0
16	7.3	7.2	---	---	---	---	12.0	11.3	11.6	13.8	13.6	13.7
17	7.4	6.8	7.2	---	---	---	13.3	11.9	12.4	13.5	13.1	13.3
18	7.5	6.5	7.0	---	---	---	15.0	13.4	14.4	13.1	12.6	12.9
19	7.8	6.6	7.3	---	---	---	14.8	14.5	14.7	12.6	12.0	12.4
20	8.5	7.0	7.8	13.0	12.3	---	14.4	13.8	14.1	12.1	11.8	12.0
21	8.3	7.6	8.0	13.1	12.0	12.7	13.8	13.3	13.5	13.1	12.2	12.7
22	8.1	7.5	7.9	12.0	11.5	11.8	13.8	13.1	13.4	13.2	12.5	13.0
23	7.8	7.2	7.5	12.0	11.2	11.4	13.6	13.1	13.4	12.9	12.3	12.6
24	8.0	7.1	7.4	11.4	10.1	11.0	13.1	12.9	13.0	13.0	11.9	12.5
25	7.3	6.6	7.0	11.5	9.8	10.9	12.9	12.0	12.8	13.2	12.7	13.0
26	7.3	6.6	6.9	---	---	---	12.8	12.0	12.6	13.3	12.9	13.1
27	7.3	6.1	6.7	12.5	12.4	---	13.2	12.4	12.9	13.3	12.9	13.0
28	7.1	6.0	6.4	12.5	12.2	12.4	13.3	13.0	13.1	13.8	13.1	13.6
29	7.0	6.5	6.7	12.4	12.2	12.3	13.7	13.3	13.5	13.9	13.0	13.3
30	7.7	7.0	7.4	12.4	12.1	12.3	13.7	13.5	13.6	14.7	13.9	14.3
31	8.1	7.7	7.9	---	---	---	13.7	13.1	13.4	14.9	14.3	14.6
MONTH	---	---	---	---	---	---	15.0	11.3	12.7	14.9	11.8	13.4

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.2	14.4	14.7	---	---	---	5.3	5.2	---	---	---	---
2	14.5	13.2	13.9	---	---	---	---	---	---	---	---	---
3	14.0	13.2	13.4	---	---	---	---	---	---	---	---	---
4	15.5	13.5	14.0	---	---	---	---	---	---	---	---	---
5	15.4	13.6	---	14.0	11.2	---	---	---	---	---	---	---
6	---	---	---	14.1	10.9	12.3	---	---	---	---	---	---
7	---	---	---	13.1	10.6	11.6	---	---	---	---	---	---
8	---	---	---	13.5	12.7	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	12.6	11.6	---	11.0	10.1	---	---	---	---	---	---	---
23	12.4	11.7	12.2	9.8	8.2	8.6	---	---	---	---	---	---
24	12.4	11.3	12.0	11.1	8.4	9.1	---	---	---	---	---	---
25	12.3	12.0	12.2	11.3	9.3	10.1	---	---	---	---	---	---
26	12.3	12.0	---	9.3	8.8	9.0	---	---	---	---	---	---
27	---	---	---	11.6	9.4	11.1	---	---	---	---	---	---
28	---	---	---	11.0	7.8	9.3	---	---	---	---	---	---
29	---	---	---	7.7	7.3	7.5	---	---	---	9.4	8.3	---
30	---	---	---	7.7	6.4	---	---	---	---	9.7	8.3	8.6
31	---	---	---	6.9	5.2	5.8	---	---	---	9.3	8.2	8.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.6	8.1	8.5	---	---	---	5.7	2.8	4.0	5.6	3.8	4.7
2	8.7	7.9	8.2	---	---	---	5.8	2.7	4.4	5.8	3.9	4.8
3	8.9	8.0	8.3	10.5	7.8	---	5.8	4.9	5.3	6.2	3.4	4.2
4	8.8	7.9	8.3	7.9	7.1	---	5.5	4.4	5.0	6.8	4.3	5.3
5	9.5	8.2	8.5	---	---	---	6.4	4.2	5.2	7.1	5.3	6.2
6	8.1	7.4	7.7	---	---	---	7.8	5.4	---	7.5	5.2	6.1
7	7.9	7.1	7.5	---	---	---	---	---	---	7.1	4.7	6.0
8	7.3	6.3	6.8	---	---	---	---	---	---	8.4	4.7	6.7
9	6.1	5.7	5.9	---	---	---	---	---	---	7.4	5.3	6.4
10	6.2	4.9	5.3	---	---	---	---	---	---	6.5	4.6	---
11	4.9	4.1	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	9.9	8.4	---	---	---	---	---	---	---
17	---	---	---	11.2	7.6	9.4	---	---	---	8.0	7.4	---
18	---	---	---	12.1	7.7	9.9	---	---	---	7.4	7.0	7.1
19	---	---	---	12.9	8.4	10.8	---	---	---	7.5	7.2	7.3
20	---	---	---	12.6	8.4	10.3	---	---	---	7.9	7.5	7.7
21	---	---	---	---	---	---	8.2	5.5	---	7.9	7.4	7.6
22	---	---	---	---	---	---	8.0	6.0	7.0	7.8	7.3	7.6
23	---	---	---	---	---	---	9.8	6.6	8.0	7.5	7.0	7.2
24	---	---	---	---	---	---	11.2	6.7	8.5	7.3	6.7	7.0
25	---	---	---	---	---	---	10.2	6.7	8.4	7.3	6.8	7.0
26	---	---	---	---	---	---	9.8	6.6	8.1	7.3	6.9	7.1
27	---	---	---	---	---	---	8.4	6.0	7.2	7.5	6.8	7.1
28	---	---	---	---	---	---	8.9	5.4	7.3	7.5	7.0	7.3
29	---	---	---	---	---	---	7.1	4.4	5.6	7.3	6.3	7.1
30	---	---	---	9.0	6.4	---	7.5	4.7	5.9	7.9	6.1	7.1
31	---	---	---	7.0	4.4	5.7	6.3	4.2	5.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.4	3.4	---

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.3	7.1	7.2	7.2	6.9	7.0
2	---	---	---	---	---	---	7.2	7.1	7.1	7.4	7.1	7.3
3	---	---	---	---	---	---	7.2	7.0	7.2	7.3	7.2	7.2
4	---	---	---	---	---	---	7.3	7.2	7.2	7.4	7.2	7.2
5	---	---	---	---	---	---	7.3	7.2	7.2	7.2	7.2	7.2
6	---	---	---	7.1	7.1	---	7.2	7.0	7.1	7.3	7.2	7.3
7	---	---	---	7.1	7.0	7.1	7.4	7.2	7.2	7.3	7.3	7.3
8	---	---	---	7.3	7.0	7.1	7.2	7.0	7.1	7.4	7.3	7.3
9	---	---	---	7.1	6.8	6.9	7.0	6.9	7.0	7.5	7.3	7.4
10	---	---	---	7.1	6.9	7.0	7.0	6.9	7.0	7.5	7.4	7.4
11	---	---	---	7.3	7.1	7.2	7.1	7.0	7.1	7.5	7.4	7.4
12	---	---	---	7.5	7.0	7.3	7.1	7.1	7.1	7.5	7.4	7.5
13	---	---	---	7.5	7.4	7.4	7.1	7.0	7.1	7.5	7.4	7.5
14	---	---	---	7.7	7.4	---	7.2	7.0	7.1	7.5	7.4	7.5
15	---	---	---	---	---	---	7.2	7.1	7.1	7.5	7.4	7.4
16	7.2	7.1	---	---	---	---	7.2	7.1	7.2	7.4	7.4	7.4
17	7.3	7.1	7.2	---	---	---	7.3	7.2	7.2	7.4	7.4	7.4
18	7.3	7.2	7.3	---	---	---	7.3	7.2	7.3	7.4	7.3	7.4
19	7.3	7.2	7.3	---	---	---	7.3	7.2	7.3	7.3	7.2	7.3
20	7.4	7.2	7.3	7.1	7.0	---	7.2	7.2	7.2	7.4	7.3	7.4
21	7.3	7.3	7.3	7.1	7.1	7.1	7.2	7.2	7.2	7.5	7.4	7.5
22	7.3	7.2	7.3	7.2	7.0	7.1	7.3	7.0	7.1	7.4	7.0	7.3
23	7.2	7.1	7.2	7.2	7.2	7.2	7.1	7.0	7.1	7.8	7.2	7.4
24	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.0	7.1	7.4	7.2	7.3
25	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.0	7.1	7.3	7.2	7.2
26	7.2	7.1	7.2	---	---	---	7.2	7.0	7.2	7.3	7.2	7.3
27	7.2	7.1	7.2	7.1	7.0	---	7.3	7.2	7.3	7.3	7.2	7.2
28	7.1	7.1	---	7.1	7.0	7.0	7.3	7.2	7.3	7.4	7.0	7.1
29	---	---	---	7.2	7.1	7.1	7.3	7.3	7.3	7.2	7.0	7.1
30	---	---	---	7.2	7.1	7.1	7.3	7.2	7.3	7.2	7.1	7.2
31	---	---	---	---	---	---	7.2	7.0	7.1	7.3	7.2	7.2
MONTH	---	---	---	---	---	---	7.4	6.9	7.2	7.8	6.9	7.3

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.2	7.3	7.5	7.4	7.5	7.3	7.3	---	7.3	7.2	7.3
2	8.3	7.0	7.4	7.4	7.4	7.4	7.1	7.0	---	7.2	7.1	7.1
3	7.5	6.9	7.0	7.4	7.3	7.4	7.5	7.0	7.1	7.1	7.0	7.1
4	7.0	6.9	7.0	7.4	7.3	7.4	7.4	7.1	7.2	7.3	7.1	7.3
5	7.1	7.0	7.0	7.4	7.3	7.4	7.2	7.1	7.1	7.3	7.3	7.3
6	7.2	7.1	7.1	7.5	7.4	7.4	7.2	7.0	7.1	7.3	7.2	7.3
7	7.2	7.1	7.2	7.4	7.3	7.4	7.2	7.0	7.2	7.5	7.2	7.3
8	7.2	7.1	7.2	7.3	7.3	---	7.3	7.1	7.2	7.5	7.4	7.4
9	7.3	7.2	7.3	---	---	---	7.2	7.0	7.2	7.4	7.2	7.3
10	7.3	7.3	7.3	---	---	---	7.4	7.1	7.2	7.3	7.3	7.3
11	7.4	7.1	7.3	---	---	---	7.3	7.1	7.2	7.4	7.2	7.3
12	7.4	7.3	---	7.8	7.2	---	7.2	7.2	7.2	7.4	7.3	7.4
13	---	---	---	7.6	7.6	---	---	---	---	7.6	7.3	7.4
14	---	---	---	7.5	7.4	7.4	---	---	---	7.4	7.2	7.3
15	---	---	---	7.4	7.3	7.3	---	---	---	7.7	7.2	7.5
16	---	---	---	7.3	7.2	7.3	7.4	7.3	---	7.7	7.5	7.6
17	---	---	---	7.4	7.0	7.2	7.3	7.2	7.3	7.7	7.5	7.6
18	---	---	---	7.5	7.3	7.4	7.3	7.2	7.3	7.9	7.5	7.7
19	---	---	---	7.4	7.1	7.3	7.4	7.2	7.3	7.6	7.5	7.6
20	7.5	7.4	---	7.4	7.3	7.4	7.5	7.3	7.4	7.5	7.1	7.4
21	7.5	7.4	7.4	7.5	7.4	7.4	7.5	7.3	7.4	7.6	7.3	7.5
22	7.6	7.4	7.4	7.5	7.4	7.5	7.4	7.3	7.4	7.6	7.5	7.5
23	7.4	7.4	7.4	7.5	7.5	7.5	7.6	7.3	7.4	7.5	7.4	7.4
24	7.5	7.4	7.4	7.5	7.5	7.5	7.6	7.5	7.6	7.4	7.3	7.4
25	7.6	7.4	7.4	7.5	7.5	7.5	7.5	7.4	7.5	7.5	7.4	7.4
26	7.5	7.4	7.4	7.6	7.3	7.4	7.6	7.4	7.4	7.5	7.4	7.5
27	7.5	7.4	7.5	7.4	7.2	7.3	7.4	7.2	7.3	7.5	7.5	7.5
28	7.5	7.4	7.5	7.5	7.3	7.4	7.3	7.2	7.3	7.4	7.4	---
29	---	---	---	7.7	7.4	7.5	7.3	7.2	7.3	7.2	7.0	---
30	---	---	---	7.4	7.4	---	7.3	7.3	7.3	7.3	7.0	7.2
31	---	---	---	7.4	7.3	7.4	---	---	---	7.5	7.0	7.4
MONTH	---	---	---	7.8	7.0	---	7.6	7.0	7.3	7.9	7.0	7.4

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.5	7.5	---	---	---	7.7	7.0	7.5	7.4	7.1	7.2
2	7.5	7.4	7.4	---	---	---	6.9	6.2	6.6	7.4	6.9	7.2
3	7.5	7.3	7.4	7.1	6.1	---	6.7	6.1	6.4	7.2	6.8	7.0
4	7.4	6.8	7.2	6.8	6.2	---	6.9	6.7	6.8	8.0	6.9	7.5
5	7.5	6.8	7.2	---	---	---	7.1	6.7	6.9	8.1	7.4	7.8
6	7.3	6.5	7.0	---	---	---	8.3	6.8	7.5	8.1	7.5	7.8
7	7.5	7.0	7.2	---	---	---	8.5	7.4	7.9	8.1	7.3	7.7
8	7.3	7.0	7.2	---	---	---	8.0	7.1	7.4	8.3	7.4	7.9
9	7.1	6.9	7.0	8.2	7.6	---	8.0	7.2	---	7.9	7.4	7.7
10	7.2	7.0	7.1	8.6	7.1	7.9	8.1	7.3	---	7.6	7.3	---
11	7.6	7.1	7.4	7.6	7.2	7.4	7.9	7.5	---	---	---	---
12	7.7	7.2	7.5	8.4	7.3	7.8	7.1	7.0	---	---	---	---
13	7.4	7.1	7.3	8.4	7.5	7.9	7.2	6.9	7.0	---	---	---
14	7.2	7.0	7.1	8.9	7.5	8.2	7.4	6.9	7.1	---	---	---
15	7.4	7.2	7.3	7.9	7.2	7.5	7.1	6.8	6.9	---	---	---
16	7.4	7.0	7.2	7.5	7.1	---	7.1	6.7	6.9	---	---	---
17	7.5	7.0	7.4	---	---	---	7.3	6.9	7.1	7.0	7.0	---
18	7.8	7.4	7.6	---	---	---	7.2	7.0	7.1	7.0	6.8	6.9
19	7.7	7.4	7.6	---	---	---	7.4	7.0	7.2	7.1	7.0	7.1
20	7.6	7.4	7.5	---	---	---	7.2	7.0	7.1	7.2	7.0	7.2
21	7.3	6.5	7.0	---	---	---	7.4	7.0	7.2	7.2	7.2	7.2
22	7.3	6.9	7.1	---	---	---	7.5	6.9	7.3	7.1	7.0	7.1
23	7.4	7.1	7.3	---	---	---	8.0	7.3	7.6	6.9	6.8	6.9
24	7.3	7.1	7.2	---	---	---	8.3	7.3	7.7	7.0	7.0	7.0
25	7.4	7.2	---	---	---	---	8.3	7.2	7.8	7.1	7.0	7.0
26	---	---	---	---	---	---	8.3	7.3	7.8	7.1	7.0	7.0
27	---	---	---	---	---	---	8.3	7.1	7.7	7.0	7.0	7.0
28	---	---	---	---	---	---	8.5	7.2	7.9	7.1	6.9	7.0
29	---	---	---	---	---	---	8.0	7.2	7.6	7.0	6.8	6.9
30	---	---	---	8.5	8.0	---	8.1	7.2	7.6	7.3	7.0	7.1
31	---	---	---	8.5	7.7	8.1	7.8	7.0	7.5	---	---	---
MONTH	7.8	6.5	7.3	---	---	---	8.5	6.1	7.3	8.3	6.8	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.0	13.5	13.5	6.0	5.0	5.5	8.5	7.0	8.0
2	---	---	---	14.5	13.5	14.0	6.0	5.0	5.5	8.0	7.0	8.0
3	---	---	---	15.0	14.5	15.0	6.5	5.5	6.0	7.0	5.0	6.5
4	---	---	---	14.5	14.5	14.5	7.0	6.5	6.5	6.0	5.5	6.0
5	---	---	---	15.0	14.0	14.5	8.0	6.5	7.5	5.5	5.5	5.5
6	---	---	---	14.5	14.0	14.0	8.5	8.0	8.0	5.5	4.5	5.0
7	---	---	---	14.5	13.5	14.0	8.5	7.0	8.0	4.5	3.0	4.0
8	---	---	---	15.0	14.0	14.5	7.0	6.0	6.0	3.0	2.0	2.0
9	---	---	---	13.0	10.5	11.0	6.0	5.0	5.0	2.0	1.5	1.5
10	---	---	---	11.0	10.0	10.5	6.5	5.5	6.0	2.0	1.5	1.5
11	---	---	---	11.0	10.0	11.0	6.5	6.0	6.5	2.0	1.5	1.5
12	---	---	---	11.5	11.0	11.0	6.0	6.0	6.0	2.0	1.5	1.5
13	---	---	---	11.5	11.0	11.0	6.0	6.0	6.0	2.0	1.5	1.5
14	---	---	---	11.0	11.0	---	6.0	6.0	6.0	3.0	1.5	2.0
15	---	---	---	---	---	---	6.0	6.0	6.0	3.0	2.0	2.5
16	14.5	14.5	---	---	---	---	6.0	4.0	5.0	4.0	2.0	3.0
17	15.5	14.5	15.0	---	---	---	4.0	2.0	3.0	5.0	3.5	4.0
18	15.0	14.0	14.5	---	---	---	2.0	1.5	2.0	6.0	4.5	5.0
19	14.5	13.0	13.5	---	---	---	3.0	2.0	2.5	6.5	5.5	6.0
20	13.5	12.0	12.5	6.5	6.0	---	4.5	3.0	3.5	6.5	6.0	6.5
21	13.5	11.5	12.5	6.5	5.5	6.0	5.5	4.5	5.0	6.0	4.5	5.0
22	13.5	12.0	13.0	6.0	5.5	6.0	5.5	4.5	5.0	6.5	4.5	5.0
23	14.0	13.0	13.5	6.0	5.0	5.5	5.5	4.5	5.0	7.0	6.0	6.5
24	15.0	14.0	14.5	6.0	5.0	5.5	5.5	5.5	5.5	6.5	5.5	6.0
25	14.5	13.5	14.0	5.5	4.5	5.0	5.5	5.5	5.5	6.0	5.5	5.5
26	14.5	13.0	13.5	---	---	---	6.0	5.5	6.0	6.5	5.5	6.0
27	14.5	13.0	14.0	8.0	7.0	---	6.5	6.0	6.0	6.5	6.0	6.0
28	15.5	14.0	14.5	8.0	7.0	7.0	6.5	6.0	6.0	6.5	5.0	5.5
29	16.0	15.0	15.5	8.0	7.0	7.0	6.0	5.5	5.5	5.5	4.0	5.0
30	16.0	15.0	15.5	7.0	6.0	6.5	6.0	5.5	5.5	4.0	3.5	3.5
31	14.5	14.0	14.0	---	---	---	7.0	5.5	6.0	3.5	3.0	3.5
MONTH	---	---	---	15.0	4.5	---	8.5	1.5	5.5	8.5	1.5	4.5

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, Pa.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	3.0	3.0	8.5	6.5	7.5	13.0	13.0	---	15.5	14.0	14.5
2	5.5	3.5	4.5	9.0	7.0	8.0	12.0	11.0	---	17.0	15.0	16.0
3	5.0	4.5	4.5	9.0	8.5	8.5	11.0	10.5	---	18.5	16.5	17.5
4	5.0	4.5	5.0	10.0	9.0	9.0	11.0	10.0	10.5	18.5	16.5	17.5
5	6.0	5.5	5.5	10.0	9.0	9.5	10.0	9.5	9.5	16.5	15.5	16.0
6	6.0	5.5	6.0	9.0	9.0	9.0	10.0	9.5	10.0	16.5	14.5	15.5
7	6.5	6.0	6.0	9.5	9.0	9.0	11.5	10.0	11.0	17.0	15.0	16.0
8	6.5	6.0	6.5	10.0	9.0	9.5	11.5	10.5	11.0	16.5	16.0	16.0
9	6.5	5.0	5.5	11.0	9.5	10.0	11.0	10.0	10.5	18.0	16.0	17.0
10	5.0	4.0	4.5	11.5	10.0	11.0	11.0	10.0	10.5	19.5	16.5	18.0
11	4.5	3.0	4.0	11.5	10.5	11.0	10.0	9.5	10.0	20.0	18.5	19.0
12	3.5	2.0	3.0	12.0	10.5	11.5	9.5	9.0	9.5	19.5	19.0	19.5
13	4.0	2.0	3.0	13.0	11.0	12.0	---	---	---	19.0	18.0	18.5
14	4.0	3.0	3.5	13.0	11.5	12.0	---	---	---	18.5	17.0	17.5
15	5.0	3.5	4.5	13.0	10.5	12.0	---	---	---	17.0	16.0	17.0
16	5.0	4.0	4.5	13.5	11.5	12.5	13.5	12.0	---	17.0	16.0	16.5
17	4.0	2.0	3.0	14.0	12.0	13.0	14.5	13.0	13.5	18.0	16.0	16.5
18	3.5	2.0	2.5	12.0	10.0	11.0	15.5	14.0	15.0	17.0	16.0	16.5
19	3.5	2.0	3.0	10.0	8.5	9.5	16.5	15.0	16.0	17.0	15.5	16.0
20	5.0	3.5	4.0	9.5	8.5	9.0	18.0	16.5	17.0	16.0	15.5	16.0
21	5.5	4.0	4.5	9.0	8.5	8.5	18.0	16.5	17.0	16.0	15.5	15.5
22	6.0	4.5	5.5	9.0	8.5	8.5	19.0	16.5	17.5	16.5	15.5	16.0
23	6.5	5.0	5.5	9.5	8.0	8.5	19.5	18.0	19.0	16.5	16.0	16.5
24	6.5	4.5	6.0	10.5	8.0	9.0	20.5	19.0	19.5	17.0	16.0	16.5
25	7.0	5.5	6.0	10.0	9.0	9.5	19.5	18.5	19.5	16.0	15.0	16.0
26	7.0	6.0	6.5	10.5	10.0	10.0	18.0	15.5	16.5	16.0	15.0	15.5
27	7.0	6.0	6.5	11.0	9.5	10.0	15.0	13.5	14.0	15.0	14.5	14.5
28	8.0	6.0	7.0	12.0	10.0	11.0	13.5	13.0	13.5	15.0	14.5	14.5
29	---	---	---	12.0	11.0	11.5	14.0	12.0	13.0	17.0	14.5	16.0
30	---	---	---	13.0	11.5	---	14.0	13.0	13.5	19.0	17.0	18.0
31	---	---	---	13.5	12.0	13.0	---	---	---	19.5	18.5	19.0
MONTH	8.0	2.0	5.0	14.0	6.5	10.0	20.5	9.0	---	20.0	14.0	16.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	19.0	19.5	23.5	21.5	22.5	28.5	28.0	28.0	30.5	29.0	30.0
2	20.0	19.0	19.5	23.5	23.0	---	28.0	24.0	26.0	31.0	29.5	30.0
3	21.0	19.5	20.0	25.0	24.0	---	25.5	24.5	24.5	31.0	29.0	30.0
4	22.0	20.0	21.0	24.5	24.0	---	26.5	25.0	25.5	30.5	29.0	30.0
5	24.0	21.5	23.0	---	---	---	27.0	25.0	26.0	30.5	29.5	30.0
6	25.5	23.0	24.5	---	---	---	28.0	26.0	27.0	30.0	29.0	29.5
7	25.5	24.5	25.0	---	---	---	28.5	26.5	27.5	29.5	28.0	28.5
8	26.0	25.0	25.5	---	---	---	28.5	27.0	27.5	28.5	26.5	27.5
9	---	---	---	28.5	28.0	---	29.0	28.0	---	27.0	26.0	26.5
10	---	---	---	29.5	28.0	28.5	30.0	28.5	---	25.5	24.0	---
11	---	---	---	28.5	26.5	28.0	29.0	29.0	---	---	---	---
12	---	---	---	27.0	25.5	26.0	29.5	29.5	---	---	---	---
13	---	---	---	26.0	24.5	25.5	29.5	28.5	29.0	---	---	---
14	---	---	---	26.5	25.0	25.5	28.5	26.5	27.5	---	---	---
15	---	---	---	26.0	25.5	26.0	28.0	26.5	27.0	---	---	---
16	---	---	---	27.0	25.5	26.0	26.5	26.0	26.0	---	---	---
17	---	---	---	26.5	25.5	26.0	27.0	26.0	26.0	20.5	20.0	---
18	---	---	---	27.0	25.5	26.5	26.5	25.5	26.0	21.0	20.0	20.0
19	---	---	---	28.0	26.0	27.0	26.5	25.5	26.0	21.0	19.5	20.0
20	---	---	---	28.5	26.5	27.5	26.0	25.5	25.5	21.0	20.0	20.5
21	---	---	---	28.5	26.5	27.5	25.0	24.5	24.5	20.0	19.5	19.5
22	---	---	---	28.0	26.5	27.0	25.0	24.0	24.5	20.0	19.0	19.5
23	---	---	---	28.0	26.5	27.0	25.0	23.5	24.0	21.0	20.0	20.5
24	---	---	---	28.0	26.0	27.0	25.0	23.5	24.5	21.0	20.0	20.5
25	24.5	21.5	---	27.0	26.5	27.0	25.5	24.0	24.5	21.0	20.5	20.5
26	24.5	21.5	23.0	27.0	26.5	27.0	26.5	24.5	25.5	21.5	20.0	20.5
27	25.0	23.5	24.5	28.5	26.5	27.5	27.0	25.5	26.0	21.5	20.0	20.5
28	26.0	24.5	25.5	29.0	27.0	28.5	28.5	26.5	27.5	21.5	21.0	21.0
29	26.0	20.5	23.5	29.0	28.5	28.5	29.5	27.0	28.5	22.0	21.0	21.5
30	21.5	20.5	21.0	29.5	28.0	28.5	30.0	28.5	29.0	22.0	21.0	21.5
31	---	---	---	29.0	28.0	28.5	30.5	29.0	29.5	---	---	---
MONTH	---	---	---	29.5	21.5	---	30.5	23.5	26.5	31.0	19.0	---

01474703 DELAWARE RIVER AT FORT MIFFLIN AT PHILADELPHIA, PA.

LOCATION.--Lat 39°52'45", long 75°12'11", Philadelphia County, water-quality recorder on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mile (0.6 km)downstream from mouth of Schuylkill River, in Philadelphia.

DRAINAGE AREA.--10,000 mi^2 (25,900 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1970 to December 1971.
Water temperatures: June 1972 to September 1973.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	16.0	15.5	15.5	---	---	---	---	---	---
2	---	---	---	16.0	15.5	15.5	---	---	---	---	---	---
3	---	---	---	16.5	15.5	15.5	---	---	---	---	---	---
4	---	---	---	16.0	15.0	15.5	---	---	---	---	---	---
5	---	---	---	16.0	15.0	15.5	---	---	---	7.0	6.0	---
6	---	---	---	16.0	15.0	15.0	---	---	---	6.5	5.5	5.5
7	---	---	---	15.5	15.0	15.0	---	---	---	5.5	4.0	5.0
8	---	---	---	17.0	15.0	15.5	---	---	---	4.5	4.0	4.0
9	---	---	---	15.5	12.0	13.5	---	---	---	4.0	3.5	3.5
10	---	---	---	13.5	12.0	12.5	---	---	---	3.5	3.0	3.0
11	---	---	---	13.0	12.0	12.0	---	---	---	3.5	3.0	3.0
12	---	---	---	13.0	11.5	12.0	---	---	---	3.0	2.0	2.5
13	19.5	19.5	---	13.0	11.5	11.5	---	---	---	3.0	2.0	2.5
14	19.5	19.0	19.5	13.0	10.5	11.5	---	---	---	3.0	2.0	2.0
15	19.5	18.5	19.0	11.0	9.5	10.0	---	---	---	3.5	2.0	2.5
16	19.0	18.0	18.5	9.5	9.5	9.5	---	---	---	3.5	2.0	2.5
17	19.0	18.0	18.5	9.5	9.0	9.5	---	---	---	3.5	2.0	2.5
18	18.5	18.0	18.0	9.5	9.0	9.0	---	---	---	4.0	3.0	3.0
19	18.0	16.5	17.0	9.5	8.5	9.0	---	---	---	5.0	3.0	3.5
20	17.0	16.0	16.5	9.5	9.0	---	---	---	---	6.5	3.5	5.0
21	16.5	15.5	16.0	---	---	---	---	---	---	7.0	4.0	5.0
22	16.5	15.5	16.0	---	---	---	---	---	---	7.0	3.5	4.5
23	16.5	15.5	16.0	---	---	---	---	---	---	8.0	4.5	6.0
24	16.5	16.0	16.0	---	---	---	---	---	---	8.0	5.0	6.5
25	16.5	16.0	16.0	---	---	---	---	---	---	7.0	5.5	6.0
26	16.0	15.5	16.0	---	---	---	---	---	---	7.0	5.5	6.0
27	16.0	15.5	16.0	---	---	---	---	---	---	8.0	6.0	6.5
28	16.5	15.5	16.0	---	---	---	---	---	---	8.0	6.0	7.0
29	17.0	16.0	16.5	---	---	---	---	---	---	6.5	4.0	5.5
30	17.0	15.5	16.0	---	---	---	---	---	---	4.0	3.5	4.0
31	16.5	15.5	15.5	---	---	---	---	---	---	4.0	3.5	3.5
MONTH	---	---	---	---	---	---	---	---	---	8.0	2.0	4.5

01474703 DELAWARE RIVER AT FORT MIFFLIN AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.0	3.5	4.0	8.0	4.5	5.5	---	---	---	16.0	15.0	15.5
2	5.5	4.0	4.5	8.5	5.0	6.5	---	---	---	16.5	15.5	16.0
3	6.0	4.0	4.5	8.5	6.5	---	---	---	---	17.0	16.0	16.0
4	5.5	4.0	5.0	---	---	---	---	---	---	17.0	15.5	16.0
5	6.0	5.0	5.5	10.0	7.0	---	---	---	---	16.5	15.5	16.0
6	6.5	5.5	6.0	9.5	6.5	8.0	11.0	10.0	---	16.5	15.5	---
7	6.5	5.5	6.0	9.5	6.5	8.0	11.0	10.0	10.5	---	---	---
8	7.0	5.0	6.0	10.0	8.0	---	11.5	10.0	10.5	---	---	---
9	6.5	5.0	6.0	8.5	8.0	---	11.5	9.5	10.5	18.0	16.5	---
10	6.0	4.5	5.0	---	---	---	11.0	10.0	10.5	18.0	16.5	17.0
11	5.0	4.0	4.5	---	---	---	11.0	9.5	10.0	18.5	17.0	18.0
12	4.5	3.5	4.0	---	---	---	10.0	9.5	9.5	19.0	17.0	18.0
13	4.0	3.5	3.5	---	---	---	10.0	9.0	9.5	19.0	18.0	18.0
14	3.5	3.5	3.5	---	---	---	10.5	9.0	9.5	19.0	18.0	18.5
15	---	---	---	---	---	---	10.5	9.5	10.0	19.5	18.0	18.5
16	---	---	---	---	---	---	11.5	10.0	10.5	19.0	18.0	18.5
17	---	---	---	---	---	---	12.0	10.5	---	18.5	18.0	18.0
18	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
19	---	---	---	---	---	---	13.5	11.5	---	18.0	16.5	17.0
20	---	---	---	---	---	---	15.0	12.0	13.5	18.0	16.0	16.5
21	---	---	---	---	---	---	15.0	13.0	14.0	17.0	15.5	16.0
22	---	---	---	---	---	---	16.0	13.5	14.5	16.5	15.0	15.5
23	---	---	---	---	---	---	16.0	14.5	15.0	16.5	15.0	15.5
24	---	---	---	---	---	---	17.0	15.0	16.0	16.0	14.5	15.5
25	---	---	---	---	---	---	18.0	15.5	16.5	16.5	14.5	15.5
26	6.5	4.5	---	---	---	---	18.5	16.0	17.0	16.5	15.0	15.5
27	7.0	4.0	5.0	---	---	---	18.0	16.0	16.5	16.5	15.0	15.5
28	7.0	4.0	5.0	---	---	---	16.0	14.5	15.5	16.5	15.0	15.5
29	---	---	---	---	---	---	15.5	14.5	15.0	16.0	15.5	15.5
30	---	---	---	---	---	---	15.5	15.0	15.5	18.5	16.0	17.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	18.5	9.0	---	19.5	14.5	16.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	29.5	29.0	---
2	---	---	---	---	---	---	---	---	---	29.5	29.0	29.0
3	---	---	---	---	---	---	---	---	---	29.5	29.0	29.5
4	---	---	---	---	---	---	---	---	---	30.0	29.0	29.5
5	---	---	---	---	---	---	---	---	---	29.5	29.0	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	29.5	29.0	---	---	---	---
16	---	---	---	---	---	---	29.5	28.5	29.0	---	---	---
17	---	---	---	---	---	---	29.0	28.5	28.5	---	---	---
18	---	---	---	---	---	---	29.0	28.0	28.5	---	---	---
19	---	---	---	---	---	---	28.5	28.0	28.0	---	---	---
20	---	---	---	---	---	---	28.5	27.0	28.0	---	---	---
21	---	---	---	---	---	---	28.5	27.0	27.5	---	---	---
22	---	---	---	---	---	---	28.0	26.5	27.0	---	---	---
23	---	---	---	---	---	---	27.0	26.0	26.5	---	---	---
24	---	---	---	---	---	---	27.0	26.0	26.5	23.5	23.0	---
25	---	---	---	---	---	---	27.0	26.0	26.5	23.0	22.0	22.5
26	---	---	---	---	---	---	27.0	26.0	26.5	23.0	22.0	22.0
27	---	---	---	---	---	---	27.0	26.5	26.5	23.0	22.0	22.0
28	---	---	---	---	---	---	28.0	26.5	27.0	23.0	22.0	22.5
29	---	---	---	---	---	---	28.0	27.0	27.5	23.5	23.0	23.0
30	---	---	---	---	---	---	28.0	28.0	---	23.5	22.0	23.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, water-quality recorder located at auxiliary tidal-gaging station at end of Reynolds Aluminum Company pier, 0.5 mile (0.8 km) downstream from Chester Creek in Chester.

DRAINAGE AREA.--10,300 mi^2 (26,700 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1973.
Water temperatures: December 1961 to September 1973.

EXTREMES.

Period of record:
Specific conductance (1962-73): Maximum, 5,900 micromhos Oct. 7, 1965; minimum, 111 micromhos Apr. 26-27, 1972.
Dissolved oxygen: Maximum, 11.5 mg/l Jan. 28, 29, 1964; minimum, 0.0 mg/l on many days.
pH (1968-73): Maximum, 8.7 Sept. 13, 14, 1971; minimum, 5.5 Dec. 10, 11, 1969.
Water temperatures: Maximum, 30.0°C July 13, 14, 1966, Apr. 3, 4, 1967, Aug. 4, 1968; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	223	213	218	243	199	231
2	1150	613	---	783	517	---	227	219	---	257	199	235
3	753	599	680	653	481	527	---	---	---	251	201	239
4	791	599	697	685	492	582	---	---	---	245	221	231
5	915	643	716	531	473	499	---	---	---	237	217	226
6	1580	725	1050	513	463	487	---	---	---	237	201	223
7	1540	583	932	507	469	---	---	---	---	227	203	212
8	936	521	709	---	---	---	---	---	---	241	197	218
9	916	569	740	---	---	---	---	---	---	237	199	220
10	776	523	646	---	---	---	---	---	---	241	199	219
11	585	509	539	---	---	---	---	---	---	241	199	224
12	591	499	539	---	---	---	---	---	---	241	215	228
13	559	479	525	227	211	---	---	---	---	245	199	226
14	565	495	527	227	179	203	---	---	---	251	225	236
15	601	517	549	211	175	189	---	---	---	267	199	240
16	687	531	600	185	169	176	---	---	---	263	239	250
17	601	503	543	199	163	178	---	---	---	275	243	256
18	551	495	521	197	169	182	---	---	---	275	253	264
19	571	463	521	203	175	187	---	---	---	283	257	269
20	515	453	483	185	177	181	---	---	---	293	263	274
21	535	451	496	213	181	197	---	---	---	283	267	277
22	531	469	499	207	185	196	---	---	---	285	253	269
23	549	479	512	209	183	192	---	---	---	269	255	262
24	617	525	559	215	185	193	---	---	---	279	265	273
25	551	551	---	211	187	195	---	---	---	291	277	285
26	---	---	---	215	189	199	---	---	---	295	281	289
27	---	---	---	217	193	203	235	221	---	291	239	283
28	---	---	---	233	211	221	239	223	229	275	239	262
29	---	---	---	239	213	223	247	219	231	265	213	240
30	---	---	---	233	211	219	249	199	236	235	219	229
31	---	---	---	---	---	---	247	223	236	233	199	224
MONTH	---	---	---	783	163	---	---	---	---	295	197	246

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	231	199	218	329	315	322	249	237	241	246	224	240
2	227	199	217	329	323	326	252	225	237	244	232	237
3	205	187	197	341	323	333	262	240	256	244	224	236
4	235	179	208	365	343	354	258	232	246	247	224	237
5	275	239	---	379	321	352	240	228	235	245	231	238
6	---	---	---	335	323	330	242	220	232	245	233	239
7	---	---	---	339	329	334	228	208	218	249	235	241
8	---	---	---	343	329	335	258	216	239	269	239	250
9	---	---	---	337	325	331	264	199	232	255	231	242
10	---	---	---	333	323	328	215	199	207	259	213	236
11	---	---	---	331	323	327	217	183	202	301	252	288
12	---	---	---	335	323	329	219	193	204	290	281	286
13	---	---	---	329	299	322	223	193	208	280	261	273
14	---	---	---	323	299	319	221	197	206	260	241	250
15	233	219	---	337	319	328	221	203	212	243	199	234
16	231	215	224	345	335	---	229	205	215	241	219	236
17	235	219	229	---	---	---	279	211	225	241	223	234
18	243	199	235	---	---	---	233	215	222	237	199	225
19	255	239	247	283	277	---	227	205	220	239	227	231
20	259	239	252	281	273	277	233	213	223	245	219	235
21	259	239	253	277	259	271	237	219	226	241	239	---
22	265	239	256	271	259	265	237	225	230	---	---	---
23	265	239	261	271	239	259	239	229	234	---	---	---
24	273	259	267	267	239	256	239	214	226	---	---	---
25	285	259	278	261	249	253	226	204	218	---	---	---
26	315	285	298	259	213	239	226	212	219	---	---	---
27	317	305	311	229	211	221	228	204	223	---	---	---
28	323	309	315	235	219	229	234	220	227	---	---	---
29	---	---	---	243	223	237	240	224	235	---	---	---
30	---	---	---	249	237	241	250	224	239	---	---	---
31	---	---	---	247	233	239	---	---	---	---	---	---
MONTH	---	---	---	379	211	295	279	183	225	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	241	239	---	---	---	---
2	---	---	---	167	119	---	---	---	---	---	---	---
3	---	---	---	149	102	118	---	---	---	---	---	---
4	---	---	---	127	98	111	269	243	---	---	---	---
5	---	---	---	127	100	112	249	219	236	---	---	---
6	---	---	---	139	110	120	---	---	---	---	---	---
7	---	---	---	217	142	189	---	---	---	---	---	---
8	---	---	---	214	161	197	---	---	---	---	---	---
9	---	---	---	209	167	183	---	---	---	---	---	---
10	---	---	---	212	179	191	---	---	---	---	---	---
11	239	227	---	223	174	200	---	---	---	---	---	---
12	247	239	242	220	200	209	---	---	---	---	---	---
13	253	237	242	225	199	213	---	---	---	---	---	---
14	287	257	274	240	208	222	---	---	---	---	---	---
15	309	287	297	242	217	228	---	---	---	---	---	---
16	289	283	288	261	218	242	---	---	---	---	---	---
17	277	233	251	269	239	256	---	---	---	---	---	---
18	233	220	229	277	239	262	---	---	---	---	---	---
19	261	232	245	285	255	270	---	---	---	---	---	---
20	249	241	245	291	259	275	---	---	---	---	---	---
21	251	239	245	279	259	269	---	---	---	---	---	---
22	249	241	245	277	259	---	---	---	---	---	---	---
23	247	241	244	---	---	---	---	---	---	---	---	---
24	249	241	---	---	---	---	---	---	---	---	---	---
25	251	247	---	253	237	---	---	---	---	---	---	---
26	---	---	---	253	237	245	---	---	---	---	---	---
27	---	---	---	253	239	---	---	---	---	---	---	---
28	---	---	---	251	235	243	---	---	---	---	---	---
29	---	---	---	251	233	242	---	---	---	---	---	---
30	---	---	---	251	235	243	---	---	---	---	---	---
31	---	---	---	257	239	249	---	---	---	---	---	---
MONTH	---	---	---	291	98	---	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.2	---	---	---	9.2	8.0	8.8	---	---	---
2	0.7	0.1	0.3	1.2	0.4	---	9.1	8.8	---	12.3	11.9	---
3	0.6	0.2	0.3	2.1	0.5	1.2	---	---	---	12.7	12.1	12.4
4	0.5	0.0	0.3	1.8	0.6	1.1	---	---	---	12.8	12.2	12.5
5	0.5	0.0	0.3	1.6	0.6	1.0	---	---	---	12.9	12.3	12.6
6	0.3	0.0	0.2	1.4	0.7	1.0	---	---	---	13.3	12.4	12.8
7	0.3	0.0	---	1.2	0.6	---	---	---	---	13.6	12.8	13.2
8	---	---	---	---	---	---	---	---	---	13.6	12.9	13.2
9	---	---	---	---	---	---	---	---	---	13.6	12.7	13.1
10	1.4	1.0	---	---	---	---	---	---	---	13.7	12.9	13.3
11	1.3	0.8	1.0	---	---	---	---	---	---	13.5	12.7	13.1
12	1.0	0.7	0.9	---	---	---	---	---	---	13.4	12.7	13.0
13	1.0	0.6	0.7	6.2	5.7	---	---	---	---	13.4	12.4	12.7
14	0.9	0.5	0.7	8.1	5.8	7.0	---	---	---	13.5	12.0	12.4
15	1.5	0.8	1.1	9.9	7.3	8.1	---	---	---	12.7	11.4	11.9
16	3.5	1.0	2.0	8.8	8.4	8.5	---	---	---	12.3	11.2	11.5
17	3.0	2.0	2.5	8.7	8.4	8.5	---	---	---	12.0	11.0	11.4
18	2.6	1.8	2.2	8.6	8.3	8.4	---	---	---	11.8	10.5	11.1
19	2.7	2.0	2.3	8.5	8.1	8.3	---	---	---	11.1	10.0	10.6
20	2.8	1.6	2.3	9.5	8.2	8.8	---	---	---	11.5	10.2	10.9
21	2.3	1.1	1.8	9.5	8.9	9.2	---	---	---	11.5	10.3	10.9
22	1.9	0.6	1.4	9.3	8.8	9.1	---	---	---	10.5	10.2	---
23	1.9	0.6	1.3	9.3	8.8	9.0	---	---	---	---	---	---
24	1.8	0.5	1.1	9.5	8.7	9.0	---	---	---	---	---	---
25	---	---	---	9.1	8.5	8.8	---	---	---	---	---	---
26	---	---	---	9.0	8.5	8.7	---	---	---	---	---	---
27	---	---	---	9.2	8.5	8.9	---	---	---	---	---	---
28	---	---	---	9.3	8.8	9.0	---	---	---	---	---	---
29	---	---	---	9.1	8.8	9.0	---	---	---	---	---	---
30	---	---	---	8.9	8.5	8.7	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	9.9	0.4	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.9	8.2	8.5	6.2	5.8	6.0	4.6	3.8	4.2
2	---	---	---	8.7	7.4	8.1	6.5	6.1	---	4.1	3.5	3.8
3	---	---	---	8.6	7.7	8.0	---	---	---	4.2	3.4	3.7
4	---	---	---	8.8	7.5	7.9	---	---	---	4.1	3.1	3.4
5	---	---	---	8.0	6.6	7.3	---	---	---	4.1	3.2	3.5
6	---	---	---	7.5	6.6	6.9	---	---	---	4.0	2.8	3.4
7	---	---	---	7.5	6.5	6.8	---	---	---	3.7	3.0	3.3
8	---	---	---	7.3	6.2	6.6	---	---	---	3.4	2.8	3.1
9	---	---	---	6.8	6.0	6.2	---	---	---	3.6	3.0	3.3
10	---	---	---	7.1	6.0	6.4	---	---	---	3.4	2.7	3.0
11	---	---	---	7.1	6.2	6.5	---	---	---	3.3	2.6	2.8
12	---	---	---	6.5	5.5	5.9	---	---	---	3.0	2.4	2.7
13	---	---	---	6.1	5.4	5.7	---	---	---	3.2	2.3	2.5
14	---	---	---	6.0	5.2	5.5	---	---	---	2.9	2.2	2.5
15	---	---	---	5.7	5.0	5.3	---	---	---	3.3	2.2	2.7
16	---	---	---	5.4	4.6	4.8	---	---	---	3.1	2.3	2.6
17	---	---	---	5.2	4.6	4.9	---	---	---	2.5	2.3	2.4
18	---	---	---	5.2	5.1	---	---	---	---	2.4	2.3	2.3
19	---	---	---	9.1	8.2	---	---	---	---	2.3	2.1	2.2
20	9.7	9.4	---	8.9	8.1	8.4	6.4	6.1	---	2.1	1.9	2.0
21	9.8	8.9	9.3	9.1	8.4	8.7	6.1	5.6	5.8	1.9	1.9	---
22	9.7	8.8	9.2	9.5	8.9	9.2	5.6	5.1	5.4	---	---	---
23	9.5	8.8	9.1	9.8	9.4	9.6	5.3	4.8	4.9	---	---	---
24	9.6	8.6	8.9	9.9	9.3	9.6	5.1	4.6	4.8	---	---	---
25	9.1	8.4	8.7	9.7	9.2	9.4	4.9	4.5	4.7	---	---	---
26	9.2	8.2	8.5	9.7	6.2	7.2	5.6	4.8	5.2	---	---	---
27	9.0	8.5	8.7	6.4	6.1	6.3	6.0	5.1	5.5	---	---	---
28	8.9	8.3	8.6	6.5	6.3	6.4	5.8	5.0	5.4	---	---	---
29	---	---	---	6.4	6.1	6.2	5.8	4.8	5.1	---	---	---
30	---	---	---	6.1	5.8	5.9	5.2	4.3	4.7	---	---	---
31	---	---	---	6.1	5.7	5.9	---	---	---	---	---	---
MONTH	---	---	---	9.9	4.6	7.0	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	0.6	0.4	---	---	---	---
2	---	---	---	3.1	2.8	---	---	---	---	---	---	---
3	---	---	---	3.2	2.8	3.0	---	---	---	---	---	---
4	---	---	---	3.1	2.8	3.0	0.8	0.6	---	---	---	---
5	---	---	---	3.2	2.8	3.0	0.7	0.5	0.6	---	---	---
6	---	---	---	3.2	2.6	2.9	---	---	---	---	---	---
7	---	---	---	2.9	2.3	2.6	---	---	---	---	---	---
8	---	---	---	2.5	1.9	2.2	---	---	---	---	---	---
9	---	---	---	2.6	1.9	2.2	---	---	---	---	---	---
10	---	---	---	2.5	1.7	2.0	---	---	---	---	---	---
11	1.2	1.0	---	2.1	1.7	1.8	---	---	---	---	---	---
12	1.7	1.0	1.4	2.2	1.7	1.9	---	---	---	---	---	---
13	2.1	1.4	1.8	2.4	1.7	2.1	---	---	---	---	---	---
14	3.3	1.8	2.3	2.2	1.8	2.0	---	---	---	---	---	---
15	3.0	1.6	2.3	1.9	1.7	1.8	---	---	---	---	---	---
16	2.7	1.7	2.1	1.9	1.5	1.7	---	---	---	---	---	---
17	2.3	1.3	1.8	1.8	1.2	1.4	---	---	---	---	---	---
18	2.1	1.5	1.8	1.3	0.9	1.1	---	---	---	---	---	---
19	1.9	1.2	1.5	1.3	0.8	1.1	---	---	---	---	---	---
20	1.7	1.4	1.6	1.3	0.8	1.0	1.6	1.2	---	---	---	---
21	1.5	1.0	1.2	1.4	0.9	1.1	1.6	0.5	1.2	---	---	---
22	1.2	0.8	1.0	1.2	0.8	---	1.5	1.0	---	---	---	---
23	1.2	0.8	1.0	---	---	---	---	---	---	---	---	---
24	1.3	0.8	---	---	---	---	---	---	---	---	---	---
25	1.1	0.9	---	1.5	1.0	---	---	---	---	---	---	---
26	---	---	---	1.4	1.0	1.1	---	---	---	---	---	---
27	---	---	---	1.2	0.8	---	---	---	---	---	---	---
28	---	---	---	1.1	0.8	0.9	---	---	---	---	---	---
29	---	---	---	1.3	0.8	1.1	---	---	---	---	---	---
30	---	---	---	1.5	0.7	1.1	---	---	---	---	---	---
31	---	---	---	1.4	0.6	1.0	---	---	---	---	---	---
MONTH	---	---	---	3.2	0.6	---	---	---	---	---	---	---

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.0	5.5	6.5	---	---	---
2	6.3	6.2	---	7.9	7.1	---	6.7	6.5	---	6.6	6.5	---
3	6.3	6.2	6.2	6.7	6.5	---	---	---	---	6.6	6.5	6.6
4	6.3	6.1	6.2	7.0	6.5	6.8	---	---	---	6.6	5.7	6.1
5	6.4	5.9	6.2	6.8	6.4	6.5	---	---	---	6.6	6.6	6.6
6	6.5	5.5	6.3	6.5	6.4	6.4	---	---	---	6.7	6.6	6.6
7	6.7	6.2	---	6.5	6.4	---	---	---	---	6.7	6.5	6.6
8	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
9	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
10	6.4	6.3	---	---	---	---	---	---	---	6.6	6.5	6.6
11	6.4	6.3	6.4	---	---	---	---	---	---	7.4	6.5	6.6
12	6.4	6.3	6.3	---	---	---	---	---	---	6.6	6.5	6.5
13	6.3	6.3	6.3	6.7	6.4	---	---	---	---	6.6	6.4	6.5
14	6.3	6.2	6.3	8.1	6.7	7.4	---	---	---	6.6	6.4	6.5
15	6.6	6.3	6.3	6.7	6.3	6.5	---	---	---	6.5	6.4	6.5
16	6.4	6.3	6.3	6.6	6.4	6.5	---	---	---	6.5	6.4	6.5
17	6.5	6.3	6.4	6.6	6.3	6.5	---	---	---	7.1	6.0	6.5
18	6.5	6.2	6.3	6.5	6.4	6.5	---	---	---	---	---	---
19	6.3	6.2	6.3	7.7	6.3	6.7	---	---	---	---	---	---
20	6.3	6.0	6.2	8.0	6.3	7.0	---	---	---	---	---	---
21	6.1	6.0	6.1	6.7	6.3	6.4	---	---	---	---	---	---
22	6.1	6.0	6.0	6.5	6.3	6.5	---	---	---	---	---	---
23	6.1	5.9	6.0	6.5	6.3	6.4	---	---	---	---	---	---
24	6.4	6.1	6.2	6.5	6.3	6.4	---	---	---	---	---	---
25	6.2	6.2	---	6.5	6.3	6.4	---	---	---	---	---	---
26	---	---	---	6.6	6.3	6.4	---	---	---	---	---	---
27	---	---	---	6.7	6.4	6.5	---	---	---	---	---	---
28	---	---	---	6.9	6.3	6.6	---	---	---	---	---	---
29	---	---	---	6.7	6.6	6.6	---	---	---	---	---	---
30	---	---	---	7.2	6.1	6.8	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	8.1	6.1	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.2	6.8	7.1	6.6	6.5	6.6
2	---	---	---	---	---	---	7.2	6.5	6.9	6.6	6.5	6.6
3	---	---	---	---	---	---	6.8	6.4	6.5	6.6	6.5	6.5
4	---	---	---	---	---	---	6.7	6.4	6.5	7.0	6.5	6.5
5	---	---	---	---	---	---	6.6	6.4	6.6	6.5	6.5	6.5
6	---	---	---	---	---	---	6.7	6.5	6.6	6.6	6.5	6.5
7	---	---	---	---	---	---	6.6	6.4	6.6	6.5	6.5	---
8	---	---	---	---	---	---	6.6	6.4	6.5	---	---	---
9	---	---	---	---	---	---	6.6	6.4	6.5	---	---	---
10	---	---	---	---	---	---	7.3	6.5	6.7	6.6	6.4	---
11	---	---	---	---	---	---	6.8	6.5	6.6	6.5	6.3	6.5
12	---	---	---	6.6	6.5	---	6.6	6.5	6.6	6.5	6.4	6.5
13	---	---	---	6.5	6.5	6.5	6.6	6.5	6.6	6.5	6.4	6.5
14	---	---	---	6.7	6.5	6.5	6.6	6.4	6.5	6.5	6.4	---
15	---	---	---	6.6	6.5	6.5	6.5	6.4	6.5	---	---	---
16	---	---	---	6.5	6.4	6.5	6.7	6.4	6.5	---	---	---
17	---	---	---	7.0	6.5	6.6	7.1	6.6	6.8	---	---	---
18	---	---	---	6.6	6.5	6.6	7.2	6.5	6.8	---	---	---
19	---	---	---	6.6	6.5	6.6	6.8	6.5	6.6	---	---	---
20	7.4	6.8	---	6.6	6.5	6.6	6.6	6.4	6.5	---	---	---
21	6.9	6.8	6.8	6.6	6.5	6.6	6.5	6.4	6.5	---	---	---
22	6.9	6.8	6.8	6.6	6.5	6.6	6.9	6.4	6.6	---	---	---
23	6.9	6.8	6.8	6.6	6.5	6.6	6.5	6.4	6.4	---	---	---
24	6.8	6.8	6.8	6.5	6.4	6.5	6.5	6.4	6.5	---	---	---
25	6.8	6.7	6.8	6.5	6.4	6.4	6.5	6.4	6.5	---	---	---
26	6.8	6.7	---	7.1	6.4	6.7	6.6	6.4	6.5	---	---	---
27	---	---	---	6.7	6.4	6.5	6.6	6.3	6.5	---	---	---
28	---	---	---	6.5	6.4	6.4	6.6	6.5	6.6	---	---	---
29	---	---	---	6.6	6.4	6.5	6.7	6.6	6.6	---	---	---
30	---	---	---	6.9	6.5	6.7	6.6	6.4	6.6	---	---	---
31	---	---	---	7.0	6.7	6.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	7.3	6.3	6.6	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.7	6.6	---	---	---	---
2	---	---	---	6.8	6.5	---	---	---	---	---	---	---
3	---	---	---	6.7	6.4	6.5	---	---	---	---	---	---
4	---	---	---	6.6	6.4	6.5	6.8	6.7	---	---	---	---
5	---	---	---	6.6	6.4	6.5	6.7	6.6	6.7	---	---	---
6	---	---	---	6.6	6.3	6.5	---	---	---	---	---	---
7	---	---	---	6.5	6.3	6.4	---	---	---	---	---	---
8	---	---	---	6.4	6.2	6.3	---	---	---	---	---	---
9	---	---	---	6.5	6.2	6.4	---	---	---	---	---	---
10	---	---	---	6.4	6.3	6.4	---	---	---	---	---	---
11	---	---	---	6.5	6.3	6.4	---	---	---	---	---	---
12	---	---	---	6.5	6.3	6.4	---	---	---	---	---	---
13	---	---	---	6.6	6.4	6.5	---	---	---	---	---	---
14	---	---	---	6.6	6.4	6.5	---	---	---	---	---	---
15	---	---	---	6.6	6.4	6.5	---	---	---	---	---	---
16	---	---	---	6.8	6.4	6.6	---	---	---	---	---	---
17	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
18	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
19	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
20	---	---	---	6.7	6.6	6.7	6.3	6.2	---	---	---	---
21	---	---	---	6.7	6.6	6.6	6.3	6.2	6.3	---	---	---
22	---	---	---	6.6	6.6	---	6.5	6.2	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	6.9	6.8	---	---	---	---	---	---	---
26	---	---	---	6.9	6.8	6.8	---	---	---	---	---	---
27	---	---	---	6.9	6.8	---	---	---	---	---	---	---
28	---	---	---	6.9	6.7	6.8	---	---	---	---	---	---
29	---	---	---	6.8	6.7	6.7	---	---	---	---	---	---
30	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
31	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
MONTH	---	---	---	6.9	6.2	---	---	---	---	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.5	21.0	---	---	---	6.0	5.0	5.5	9.0	7.0	8.0
2	21.5	20.0	21.0	15.5	14.5	---	6.5	5.5	---	8.5	6.5	7.5
3	21.5	20.5	21.0	15.5	14.5	15.0	---	---	---	7.0	6.5	6.5
4	21.0	20.0	20.5	15.5	15.0	15.0	---	---	---	7.0	6.5	6.5
5	20.5	19.5	20.0	15.0	14.5	15.0	---	---	---	7.0	6.5	6.5
6	19.5	19.0	19.0	15.0	14.0	14.5	---	---	---	7.0	5.0	6.0
7	19.0	18.0	---	15.0	14.0	---	---	---	---	6.0	3.0	4.5
8	---	---	---	---	---	---	---	---	---	4.5	2.0	3.5
9	---	---	---	---	---	---	---	---	---	4.5	2.0	3.0
10	19.5	18.5	---	---	---	---	---	---	---	4.0	2.0	3.0
11	19.5	18.0	18.5	---	---	---	---	---	---	4.0	2.0	3.0
12	19.5	18.0	18.5	---	---	---	---	---	---	4.0	1.5	2.5
13	19.0	18.0	18.5	12.0	11.5	---	---	---	---	3.5	1.5	2.5
14	18.5	18.0	18.0	12.0	10.5	11.0	---	---	---	3.5	1.5	2.0
15	18.0	17.0	17.5	10.5	9.5	10.0	---	---	---	4.0	2.0	3.0
16	18.0	16.5	17.0	9.5	8.5	9.0	---	---	---	4.0	2.0	3.0
17	17.0	16.5	16.5	9.0	8.5	8.5	---	---	---	4.5	3.0	3.5
18	16.5	15.5	16.0	9.0	8.0	8.5	---	---	---	5.0	3.0	4.0
19	16.0	14.5	15.0	8.5	7.0	8.0	---	---	---	5.5	3.5	4.5
20	14.5	14.5	---	8.5	6.5	8.0	---	---	---	5.5	4.0	4.5
21	---	---	---	8.0	6.5	7.5	---	---	---	4.5	3.5	4.0
22	---	---	---	7.0	6.0	6.5	---	---	---	6.0	3.5	4.5
23	---	---	---	6.5	5.5	6.0	---	---	---	6.0	4.5	5.5
24	15.5	14.5	---	7.0	4.5	6.0	---	---	---	6.0	5.0	5.5
25	15.0	15.0	---	6.5	5.5	6.0	---	---	---	6.5	5.0	5.5
26	---	---	---	8.0	6.0	7.0	---	---	---	7.0	5.0	6.0
27	---	---	---	8.0	6.5	7.0	---	---	---	7.0	6.0	6.5
28	---	---	---	8.0	6.5	7.0	---	---	---	7.0	6.0	6.5
29	---	---	---	8.0	6.5	7.0	---	---	---	7.0	4.5	6.0
30	---	---	---	7.0	5.5	6.0	6.5	5.5	---	5.5	4.0	4.5
31	---	---	---	---	---	---	8.0	5.5	6.5	5.0	4.0	4.5
MONTH	---	---	---	15.5	4.5	---	---	---	---	9.0	1.5	4.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	3.5	4.5	7.0	5.5	6.0	11.5	10.5	11.0	16.5	15.5	16.0
2	6.0	4.5	5.5	8.0	6.0	7.0	11.5	10.5	11.0	18.0	16.5	16.5
3	7.0	5.5	6.0	8.0	6.5	7.5	12.0	11.0	11.5	18.0	17.0	17.5
4	6.0	4.5	5.5	8.5	6.5	7.5	12.0	11.5	11.5	18.0	16.0	16.5
5	6.0	5.0	---	9.0	6.5	8.0	11.5	11.0	11.0	16.5	15.5	16.0
6	6.5	5.5	---	9.0	8.0	8.5	12.0	10.5	11.0	16.5	15.0	16.0
7	6.0	5.5	5.5	9.5	8.0	8.5	12.0	11.0	11.5	17.0	15.5	16.5
8	6.0	5.5	5.5	10.0	8.5	9.0	12.0	10.0	11.0	17.0	16.0	16.5
9	5.5	4.5	5.0	10.5	8.5	9.5	11.5	9.5	10.5	18.0	16.5	17.0
10	5.0	3.5	4.5	11.0	9.0	10.0	11.5	10.5	11.0	18.5	17.0	17.5
11	4.5	3.5	4.0	11.0	9.5	10.0	10.5	9.5	10.0	18.5	18.0	18.0
12	4.0	3.0	---	11.5	10.0	10.5	10.5	9.0	9.5	18.5	18.0	18.0
13	---	---	---	12.0	10.0	11.0	10.5	9.5	9.5	18.5	18.0	18.0
14	---	---	---	13.0	11.0	11.5	11.0	9.5	10.0	19.0	18.0	18.5
15	6.0	4.5	---	13.0	11.5	12.0	11.5	10.0	10.5	18.5	18.5	18.5
16	5.5	3.5	5.0	13.5	12.0	12.5	12.0	11.0	11.0	19.0	18.0	18.5
17	4.5	3.0	3.5	14.5	13.0	13.5	12.0	11.0	11.5	19.0	18.5	18.5
18	4.0	2.0	3.0	13.0	11.0	11.5	13.5	11.5	12.0	18.5	17.0	18.0
19	4.0	2.0	3.0	11.5	10.0	11.0	14.0	11.5	13.0	18.5	17.0	18.0
20	4.5	2.0	3.5	11.5	10.0	11.0	14.0	13.0	13.5	18.0	17.0	17.5
21	5.0	3.0	4.0	11.0	10.5	10.5	14.0	12.0	13.0	17.0	16.5	---
22	5.0	3.5	4.5	11.0	9.5	10.0	15.0	13.0	14.0	---	---	---
23	5.0	3.5	4.0	10.5	9.5	10.0	15.5	14.0	15.0	---	---	---
24	5.0	3.5	4.0	11.0	9.5	10.0	16.5	14.5	15.5	---	---	---
25	5.5	3.5	4.5	11.0	10.0	10.5	16.0	15.5	16.0	---	---	---
26	6.0	4.0	5.0	10.5	9.5	10.0	16.0	15.0	15.5	---	---	---
27	6.0	4.5	5.5	10.0	9.5	9.5	16.5	15.0	15.5	---	---	---
28	6.5	5.0	5.5	10.5	9.5	10.0	15.5	14.5	15.0	---	---	---
29	---	---	---	10.5	9.5	10.0	15.5	14.5	15.0	---	---	---
30	---	---	---	10.5	10.0	10.0	16.0	15.0	15.5	---	---	---
31	---	---	---	11.0	10.0	10.5	---	---	---	---	---	---
MONTH	7.0	2.0	4.5	14.5	5.5	10.0	16.5	9.0	12.5	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	28.0	28.0	---	---	---	---
2	---	---	---	23.0	22.0	---	---	---	---	---	---	---
3	---	---	---	22.0	21.5	22.0	---	---	---	---	---	---
4	---	---	---	23.0	21.0	22.0	28.0	26.5	---	---	---	---
5	---	---	---	23.5	22.0	23.0	28.0	27.0	27.0	---	---	---
6	---	---	---	24.0	23.0	23.0	---	---	---	---	---	---
7	---	---	---	24.5	23.0	23.5	---	---	---	---	---	---
8	---	---	---	25.0	23.5	24.0	---	---	---	---	---	---
9	---	---	---	26.0	24.5	25.0	---	---	---	---	---	---
10	---	---	---	26.0	25.5	25.5	---	---	---	---	---	---
11	25.5	24.5	---	26.0	25.5	26.0	---	---	---	---	---	---
12	26.0	25.0	25.5	25.5	25.0	25.0	---	---	---	---	---	---
13	26.0	25.0	25.5	26.0	25.0	25.0	---	---	---	---	---	---
14	26.0	25.5	25.5	26.5	25.5	25.5	---	---	---	---	---	---
15	26.0	25.0	25.5	26.5	25.5	26.0	---	---	---	---	---	---
16	25.5	25.5	25.5	26.0	25.5	26.0	---	---	---	---	---	---
17	25.5	25.0	25.0	26.0	25.5	25.5	---	---	---	---	---	---
18	25.0	24.5	24.5	26.0	25.5	25.5	---	---	---	---	---	---
19	25.0	24.0	24.5	26.5	26.0	26.0	---	---	---	---	---	---
20	24.5	24.0	24.5	27.0	26.0	26.0	28.0	27.0	---	---	---	---
21	25.0	24.5	24.5	26.5	26.0	26.0	27.0	26.5	26.5	---	---	---
22	25.0	24.5	24.5	26.0	25.5	---	26.0	26.0	---	---	---	---
23	25.0	24.5	24.5	---	---	---	---	---	---	---	---	---
24	25.0	24.5	---	---	---	---	---	---	---	---	---	---
25	25.5	25.0	---	28.0	26.5	---	---	---	---	---	---	---
26	---	---	---	28.0	26.5	27.0	---	---	---	---	---	---
27	---	---	---	28.0	27.0	---	---	---	---	---	---	---
28	---	---	---	28.0	27.0	27.5	---	---	---	---	---	---
29	---	---	---	28.0	27.0	27.5	---	---	---	---	---	---
30	---	---	---	28.5	27.0	27.5	---	---	---	---	---	---
31	---	---	---	28.5	28.0	28.0	---	---	---	---	---	---
MONTH	---	---	---	28.5	21.0	---	---	---	---	---	---	---

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.

LOCATION.--Lat 39°57'42", long 75°48'06", Chester County, on left bank at bridge on Legislative Route 15068 at Modena and 300 ft (91 km) upstream from Dennis Run.

DRAINAGE AREA.--55.0 mi² (142 km²).

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1973. Water temperatures: May 1971 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 456 micromhos Feb. 14; minimum, 119 micromhos May 28.
pH: Maximum, 9.0 Jan. 9; minimum, 6.6 Oct. 2-3, June 24.
Water temperatures: Maximum, 31.5°C Aug. 30 to Sept. 1; minimum, 1.5°C Jan. 30, Feb. 17.

Period of record:
Specific conductance (1971-73): Maximum, 549 micromhos Apr. 11, 1972; minimum, 97 micromhos Nov. 25, 1971.
pH: Maximum, 9.0 Jan. 9, 1973; minimum, 6.6 Oct. 2-3, 1972, June 24, 1973.
Water temperatures: Maximum, 31.5°C Aug. 30 to Sept. 1; 1973; minimum, 1.0°C Jan. 16, 1972.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	250	222	233	220	215	---	200	173	186	206	181	196
2	265	229	247	245	213	227	206	176	194	210	193	200
3	266	229	250	253	215	229	222	192	206	217	190	200
4	274	239	254	245	209	227	225	207	215	210	153	188
5	274	250	261	229	213	220	232	210	220	239	205	220
6	278	188	258	238	202	221	233	147	197	242	220	228
7	205	183	190	340	232	291	204	145	180	258	222	237
8	232	195	216	335	158	214	209	120	179	276	230	245
9	258	222	237	239	174	209	173	120	149	266	230	245
10	269	223	244	259	231	248	179	167	174	268	232	244
11	263	235	252	267	249	256	202	175	190	276	235	249
12	293	230	259	268	247	257	320	144	216	268	235	248
13	292	245	262	286	250	---	225	202	210	280	240	251
14	280	225	255	---	---	---	235	205	217	282	240	247
15	268	230	247	---	---	---	224	159	197	270	242	252
16	267	235	249	---	---	---	183	159	172	285	233	251
17	283	242	261	---	---	---	211	185	197	270	234	250
18	259	237	250	242	224	---	222	200	214	277	235	250
19	255	200	233	248	158	220	242	212	223	252	224	237
20	233	201	220	165	125	146	227	219	---	232	199	216
21	240	201	222	209	173	192	---	---	---	243	210	225
22	236	205	221	224	197	209	167	155	---	261	185	226
23	268	210	234	225	198	211	190	169	179	225	177	201
24	249	221	237	240	209	220	200	184	190	239	216	225
25	250	220	234	235	211	220	199	190	194	249	219	233
26	258	223	239	213	145	167	210	195	199	253	225	236
27	274	214	240	213	176	193	199	179	189	238	164	211
28	259	149	---	226	200	---	206	190	196	211	169	196
29	---	---	---	224	200	212	215	193	199	169	141	157
30	---	---	---	318	191	217	210	195	200	227	169	201
31	---	---	---	---	---	---	198	179	185	242	200	220
MONTH	293	149	241	340	125	---	320	120	195	285	141	225

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	250	220	229	250	213	231	241	169	207	---	---	---
2	370	141	210	254	220	238	192	160	167	---	---	---
3	199	139	173	290	219	236	223	196	213	269	230	---
4	225	197	211	220	197	208	241	161	202	249	219	230
5	240	211	223	257	208	225	211	182	200	260	228	238
6	239	220	229	242	222	232	240	209	225	249	229	238
7	231	213	221	255	223	234	261	228	244	237	211	---
8	229	200	218	237	212	225	233	170	192	241	208	220
9	225	183	205	261	221	240	223	183	205	212	160	187
10	230	209	217	270	237	250	220	170	194	227	201	218
11	238	209	217	250	239	243	235	198	213	240	218	229
12	240	209	223	259	232	245	238	213	224	250	215	231
13	247	212	226	272	238	255	249	215	230	232	208	220
14	456	215	245	279	239	256	255	223	238	242	199	226
15	215	179	195	269	244	254	250	228	237	239	220	226
16	239	200	212	285	243	261	236	215	227	233	200	217
17	240	210	219	261	200	231	221	205	212	246	200	218
18	240	209	219	250	209	224	233	205	215	219	198	206
19	230	211	221	253	226	237	239	214	224	230	200	215
20	250	210	229	260	231	248	249	212	223	219	171	197
21	245	219	234	253	230	243	239	215	228	203	165	181
22	345	212	232	260	239	245	249	220	233	232	178	212
23	245	210	223	265	225	244	235	190	222	232	192	218
24	239	211	225	269	232	250	233	180	212	215	181	201
25	241	210	224	263	229	241	239	200	226	199	176	189
26	239	217	229	222	155	187	---	---	---	220	199	210
27	250	211	228	249	210	225	---	---	---	220	180	203
28	246	211	229	262	222	240	---	---	---	173	119	157
29	---	---	---	260	233	252	---	---	---	229	171	202
30	---	---	---	262	231	246	---	---	---	265	220	238
31	---	---	---	279	233	246	---	---	---	286	245	267
MONTH	456	139	220	290	155	238	261	160	217	286	119	215

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	302	268	281	268	251	258	288	200	261	333	290	312
2	300	280	291	276	255	---	229	221	---	324	300	315
3	282	251	263	---	---	---	---	---	---	343	288	308
4	250	192	238	---	---	---	---	---	---	330	280	306
5	262	221	239	170	150	---	---	---	---	320	280	298
6	299	240	265	210	170	186	---	---	---	332	280	307
7	264	208	241	250	210	234	---	---	---	335	285	302
8	277	237	254	262	232	244	297	268	---	330	275	300
9	301	267	281	292	240	266	300	268	284	318	285	299
10	299	248	272	294	281	---	310	272	297	320	265	296
11	319	274	285	250	224	---	295	261	277	322	290	309
12	299	265	282	252	208	232	279	260	264	328	289	307
13	290	260	274	267	238	253	300	250	272	360	295	323
14	296	269	278	265	245	254	315	279	294	325	180	255
15	303	264	285	262	210	236	322	277	292	255	170	205
16	294	197	258	268	212	235	311	263	285	282	240	263
17	257	221	238	270	241	257	315	274	289	310	275	289
18	258	246	252	260	238	250	294	270	280	321	269	300
19	276	244	257	278	242	259	285	260	275	290	240	265
20	283	253	262	279	255	267	300	268	281	320	272	293
21	280	243	264	285	220	259	296	270	284	313	277	291
22	272	225	257	250	230	241	302	260	276	303	276	290
23	268	242	256	280	240	259	340	260	293	300	242	279
24	262	253	---	291	260	275	304	280	294	300	260	280
25	---	---	---	280	255	268	338	264	298	310	280	293
26	---	---	---	301	270	285	326	279	291	307	268	288
27	285	252	---	290	270	279	347	276	296	330	277	299
28	268	246	---	331	270	292	319	295	307	320	278	298
29	---	---	---	310	279	288	319	290	303	345	273	314
30	270	180	233	288	268	276	346	290	316	310	270	293
31	---	---	---	289	259	275	330	298	310	---	---	---
MONTH	319	180	263	331	150	257	347	200	---	360	170	293

DELAWARE RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	12.0	11.5	11.8	10.6	10.1	10.4
2	---	---	---	---	---	---	12.1	11.2	11.7	11.4	10.5	11.0
3	---	---	---	---	---	---	11.9	10.7	11.4	12.0	11.2	11.6
4	---	---	---	---	---	---	11.1	10.2	10.7	12.1	11.2	11.7
5	---	---	---	---	---	---	10.6	9.9	10.3	12.0	11.4	11.7
6	---	---	---	---	---	---	10.7	9.3	10.1	12.3	11.5	12.0
7	---	---	---	10.4	7.1	---	11.4	10.8	11.1	13.2	12.4	12.9
8	---	---	---	9.7	7.2	8.8	12.2	11.1	11.6	13.0	12.1	12.6
9	---	---	---	9.8	9.2	9.5	12.2	11.2	11.8	13.2	12.3	12.9
10	---	---	---	9.8	9.0	9.4	11.2	10.8	11.0	12.9	12.3	12.7
11	---	---	---	9.3	8.9	9.1	11.6	11.0	11.4	12.7	12.2	12.4
12	---	---	---	9.7	8.8	9.2	11.7	11.2	11.5	12.8	12.3	12.5
13	---	---	---	10.0	9.0	---	11.3	10.9	11.1	12.8	12.2	12.5
14	---	---	---	---	---	---	11.5	10.9	11.2	12.7	11.7	12.4
15	---	---	---	---	---	---	11.9	11.0	11.5	11.9	11.4	11.7
16	---	---	---	---	---	---	12.6	12.0	12.3	12.8	11.4	12.0
17	---	---	---	---	---	---	12.9	12.4	12.7	12.5	11.6	12.0
18	---	---	---	11.1	10.9	---	12.8	12.2	12.5	12.2	11.0	11.7
19	---	---	---	11.9	11.0	11.3	12.3	11.5	12.0	11.8	10.6	11.3
20	---	---	---	12.9	12.0	12.5	11.5	11.4	---	12.1	11.2	11.8
21	---	---	---	12.8	12.0	12.3	---	---	---	12.8	12.0	12.4
22	---	---	---	12.5	11.8	12.1	12.3	12.0	---	12.4	11.0	11.8
23	---	---	---	12.5	11.6	12.0	12.0	11.5	11.7	12.0	11.0	11.6
24	---	---	---	12.3	11.4	11.9	12.1	11.5	11.7	11.8	11.0	11.3
25	---	---	---	12.1	10.7	11.5	11.7	11.2	11.5	12.0	10.6	11.3
26	---	---	---	11.0	10.0	10.5	11.3	10.9	11.1	11.5	10.5	11.0
27	---	---	---	10.4	9.6	10.2	11.7	11.1	11.4	11.2	10.5	10.8
28	---	---	---	10.1	9.7	---	11.6	11.2	11.4	11.2	10.3	10.8
29	---	---	---	11.0	10.1	10.7	12.1	11.5	11.8	13.5	10.9	12.3
30	---	---	---	12.0	11.0	11.5	11.7	11.3	11.6	13.6	12.9	13.3
31	---	---	---	---	---	---	11.5	10.6	11.1	13.3	12.7	13.0
MONTH	---	---	---	---	---	---	12.9	9.3	11.5	13.6	10.1	11.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	12.3	12.7	14.1	11.6	12.9	9.8	8.9	---	11.4	8.6	10.1
2	13.4	12.2	12.7	13.8	10.9	12.3	---	---	---	10.6	8.0	9.4
3	13.5	12.6	13.0	12.9	11.1	12.0	10.4	10.1	---	9.6	8.0	8.8
4	13.1	12.3	12.8	13.3	11.2	12.3	11.6	10.2	11.1	10.1	8.5	9.3
5	12.9	12.1	12.5	13.3	10.9	12.0	11.9	10.8	11.4	10.8	9.0	9.8
6	12.6	12.1	12.4	12.6	11.0	11.8	12.2	10.2	11.4	11.0	8.6	9.9
7	12.7	11.8	12.2	13.0	11.1	11.8	11.7	10.0	10.8	10.6	7.7	---
8	12.3	11.8	12.1	12.8	11.0	11.6	11.4	10.0	10.8	10.1	8.1	9.0
9	13.4	12.3	13.0	13.0	10.2	11.5	11.8	10.0	11.0	9.6	7.9	8.8
10	13.6	13.0	13.3	13.0	10.2	11.4	11.9	10.2	10.7	10.0	7.0	8.6
11	13.8	13.3	13.5	12.3	10.4	11.1	12.8	10.7	---	9.4	7.1	8.1
12	14.0	13.4	13.7	11.8	9.7	10.7	---	---	---	9.7	7.4	8.5
13	14.0	13.1	13.6	12.2	9.2	10.6	---	---	---	10.4	7.8	9.0
14	14.0	13.1	13.5	12.0	9.4	10.5	---	---	---	10.2	7.5	8.7
15	13.4	12.2	12.9	11.3	8.6	10.0	---	---	---	10.0	7.6	8.7
16	13.6	12.4	12.9	10.4	8.0	9.1	---	---	---	10.5	7.7	9.2
17	14.2	13.8	14.0	9.6	7.7	8.5	10.8	9.0	---	10.2	7.4	8.7
18	14.3	13.5	14.0	11.2	9.7	10.6	10.6	8.4	9.5	10.4	7.9	9.1
19	14.0	13.0	13.6	11.6	10.3	10.9	10.5	8.5	9.3	11.0	7.8	9.5
20	13.8	12.2	13.1	11.6	9.7	10.7	11.2	8.5	9.5	9.2	7.8	8.6
21	13.0	11.6	12.4	11.7	9.8	10.8	10.9	8.2	9.5	10.8	8.9	9.7
22	13.1	11.7	12.3	11.8	10.2	10.9	10.4	7.6	9.1	10.9	7.4	9.5
23	13.4	12.0	12.6	12.0	10.0	11.0	10.0	6.8	8.4	8.6	7.5	8.2
24	13.5	12.2	12.8	11.7	9.6	10.6	9.8	7.4	8.6	10.1	8.6	9.1
25	14.0	11.9	13.1	11.6	9.7	10.6	9.8	7.6	8.8	10.2	9.2	9.8
26	13.2	11.5	12.3	10.8	9.8	10.3	---	---	---	10.4	9.2	9.8
27	13.9	11.6	12.7	10.9	9.2	10.0	---	---	---	10.4	9.2	9.9
28	14.2	12.0	13.1	11.1	9.3	10.2	---	---	---	10.2	9.6	9.9
29	---	---	---	11.0	9.3	9.9	11.2	9.8	---	9.6	8.2	9.0
30	---	---	---	10.4	9.2	9.9	11.5	9.7	10.7	9.3	8.2	8.7
31	---	---	---	10.8	8.8	9.8	---	---	---	9.4	8.1	8.8
MONTH	14.3	11.5	13.0	14.1	7.7	10.8	---	---	---	11.4	7.0	9.1

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	7.5	8.6	6.8	5.6	6.2	7.4	5.2	6.2	8.4	3.8	5.6
2	9.2	7.4	8.3	6.0	5.8	---	6.0	6.0	---	8.2	3.8	5.4
3	9.4	7.0	8.2	---	---	---	---	---	---	7.9	3.9	5.7
4	10.0	7.1	8.2	---	---	---	---	---	---	7.9	4.3	5.5
5	9.2	6.9	8.1	7.6	7.6	---	---	---	---	7.9	3.9	5.6
6	9.5	6.9	8.1	8.0	7.2	7.6	---	---	---	7.0	3.8	5.2
7	9.0	6.9	8.1	7.8	6.8	7.3	---	---	---	7.8	4.1	5.7
8	9.4	6.4	7.8	7.6	6.6	7.1	8.2	5.2	---	8.6	4.6	6.3
9	9.0	6.2	7.6	7.2	6.0	6.7	7.6	5.0	6.1	9.3	4.8	6.8
10	9.2	5.7	7.4	6.8	6.2	---	7.8	4.4	5.9	9.2	4.8	6.8
11	9.4	5.8	7.3	7.8	7.2	---	8.0	4.6	6.1	9.0	4.7	6.4
12	9.8	5.6	7.4	8.6	7.2	8.0	8.2	5.0	6.3	8.0	4.7	6.0
13	8.6	6.0	7.2	8.8	6.8	8.0	8.2	5.0	6.3	7.7	4.8	6.1
14	9.0	6.0	7.3	8.8	6.4	7.6	7.6	5.0	6.0	8.4	4.7	6.3
15	9.6	5.8	7.6	8.0	6.4	7.4	7.6	5.4	6.2	9.0	7.2	8.3
16	9.2	6.0	7.4	8.6	6.4	7.7	7.2	5.2	6.2	8.4	6.2	7.5
17	9.8	6.8	8.1	8.4	6.4	7.3	8.4	5.0	6.4	8.2	6.2	7.0
18	9.0	6.8	7.8	8.6	5.6	7.3	8.0	5.2	6.4	7.5	6.2	6.8
19	9.4	6.8	8.0	9.6	6.0	7.8	8.2	5.4	6.7	8.6	6.7	7.7
20	9.2	6.6	7.9	9.4	5.8	7.5	8.0	5.2	6.3	8.4	6.3	7.3
21	9.2	6.0	7.3	8.6	6.0	7.0	8.2	5.6	6.7	8.7	6.3	7.2
22	7.6	6.4	7.0	9.2	6.6	7.8	8.5	5.8	7.0	8.1	6.0	7.0
23	8.4	6.2	7.3	9.4	5.9	7.7	8.5	5.5	6.8	8.4	6.0	6.9
24	8.4	6.2	7.3	9.0	5.9	7.4	9.0	5.3	6.8	8.0	5.4	6.8
25	8.2	7.2	7.6	8.9	5.6	7.2	9.0	5.0	6.7	7.4	5.2	6.0
26	8.0	7.0	7.6	8.6	5.6	6.8	9.1	4.9	6.8	7.4	4.3	5.7
27	8.2	6.6	7.4	8.2	5.1	6.5	9.0	4.6	6.4	7.0	3.9	5.4
28	8.0	6.0	7.1	7.8	5.0	6.3	8.4	4.9	6.2	8.9	3.5	6.1
29	8.2	6.4	7.5	7.4	5.0	6.2	8.8	3.8	5.8	8.5	4.9	6.3
30	7.6	6.4	6.9	8.0	5.4	6.8	7.5	3.0	5.1	9.3	5.4	7.2
31	---	---	---	7.8	5.2	6.5	8.5	3.3	5.5	---	---	---
MONTH	10.0	5.6	7.6	9.6	5.0	7.2	9.1	3.0	---	9.3	3.5	6.4

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.8	6.9	7.5	7.4	---	7.6	7.2	7.3	7.4	7.2	7.3
2	7.0	6.6	6.9	7.5	7.3	7.4	7.3	7.2	7.3	7.5	7.3	7.4
3	7.1	6.6	6.8	7.6	7.3	7.4	7.3	7.2	7.3	7.5	7.3	7.4
4	7.1	6.7	6.8	7.6	7.3	7.4	7.5	7.2	7.3	7.7	7.3	7.5
5	7.1	6.7	6.9	7.7	7.4	7.5	7.4	7.3	7.4	7.9	7.6	7.7
6	7.3	7.0	7.2	7.7	7.4	7.5	7.3	7.0	7.2	7.8	7.7	7.7
7	7.2	7.0	7.1	8.2	7.4	7.6	7.4	7.1	7.3	7.8	7.7	7.8
8	7.1	6.9	7.0	7.6	7.2	7.4	7.5	7.1	7.3	8.2	7.7	7.9
9	7.1	6.9	7.0	7.5	7.2	7.4	7.2	7.1	7.2	9.0	7.2	7.6
10	7.3	6.8	7.0	7.5	7.5	7.5	7.3	7.2	7.2	7.5	7.4	7.4
11	7.2	6.7	7.0	7.5	7.4	7.5	7.3	7.1	7.3	7.6	7.4	7.4
12	7.0	6.7	6.9	7.5	7.4	7.5	7.4	7.3	7.3	7.6	7.3	7.4
13	7.0	6.9	6.9	7.4	7.4	---	7.4	7.3	7.3	7.5	7.3	7.4
14	7.2	6.9	7.0	---	---	---	7.4	7.3	7.3	7.6	7.4	7.4
15	7.2	6.9	7.0	---	---	---	7.4	7.0	7.2	7.5	7.3	7.4
16	7.2	7.0	7.1	---	---	---	7.3	7.0	7.2	7.5	7.3	7.4
17	7.4	7.0	7.1	---	---	---	7.4	7.3	7.3	7.7	7.3	7.4
18	7.2	6.7	7.0	7.2	7.2	---	7.4	7.2	7.3	7.5	7.3	7.4
19	7.1	6.9	7.0	7.3	7.2	7.2	7.4	7.2	7.3	7.6	7.3	7.4
20	7.1	6.8	7.0	7.2	7.0	7.1	7.2	7.1	---	7.6	7.3	7.4
21	7.1	6.8	6.9	7.3	7.2	7.2	---	---	---	7.6	7.3	7.4
22	7.3	6.9	7.0	7.3	7.2	7.2	7.0	6.7	---	7.5	7.1	7.3
23	7.4	7.1	7.2	7.3	7.2	7.3	7.0	6.9	7.0	7.5	7.2	7.3
24	7.5	7.1	7.3	7.3	7.2	7.3	7.2	7.1	7.2	7.5	7.3	7.4
25	7.6	7.2	7.4	7.3	7.2	7.3	7.3	7.2	7.2	7.6	7.3	7.4
26	7.6	6.8	7.3	7.3	7.1	---	7.3	7.2	7.3	7.6	7.3	7.4
27	7.5	7.3	---	---	---	---	7.4	7.3	7.3	7.4	7.2	7.3
28	---	---	---	7.3	7.2	---	7.4	7.3	7.3	7.4	7.2	7.3
29	---	---	---	7.3	7.3	---	7.4	7.3	7.4	7.3	7.1	7.2
30	---	---	---	7.4	7.3	---	7.3	7.3	7.3	7.3	7.2	7.3
31	---	---	---	---	---	---	7.3	7.2	7.3	7.4	7.3	7.3
MONTH	7.6	6.6	7.0	8.2	7.0	---	7.6	6.7	7.3	9.0	7.1	7.4

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.3	7.3	8.3	7.5	7.7	8.2	7.4	7.6	8.3	7.4	7.8
2	7.7	7.1	7.3	8.2	7.5	7.8	7.6	7.5	7.5	8.4	7.4	7.8
3	7.3	7.1	7.2	7.8	7.5	7.6	7.6	7.4	7.5	7.8	7.4	7.5
4	7.4	7.3	7.3	8.2	7.4	7.7	7.9	7.5	7.6	7.9	7.3	7.6
5	7.5	7.3	7.4	8.2	7.4	7.7	7.7	7.5	7.6	8.1	7.3	7.6
6	7.5	7.4	7.5	8.0	7.4	7.6	7.9	7.6	7.7	8.3	7.3	7.8
7	7.5	7.3	7.4	8.0	7.4	7.6	7.8	7.5	7.7	8.2	7.4	---
8	7.5	7.3	7.4	8.1	7.4	7.6	7.6	7.5	7.5	7.8	7.3	7.5
9	7.5	7.3	7.4	8.3	7.4	7.7	7.7	7.4	7.6	7.8	7.3	7.6
10	7.4	7.3	7.4	8.4	7.4	7.7	7.9	7.5	7.7	8.2	7.3	7.7
11	7.5	7.4	7.4	7.9	7.4	7.6	7.9	7.6	7.7	8.2	7.3	7.7
12	7.5	7.3	7.4	8.2	7.4	7.7	8.3	7.6	7.8	8.2	7.3	7.6
13	7.5	7.3	7.4	8.5	7.4	7.8	8.0	7.5	7.8	8.3	7.3	7.7
14	7.5	7.3	7.4	8.3	7.4	7.7	8.4	7.5	7.8	8.3	7.3	7.6
15	7.6	7.1	7.3	8.2	7.4	7.6	8.3	7.5	7.8	8.0	7.3	7.5
16	7.4	7.2	7.3	8.1	7.4	7.6	8.2	7.5	7.8	8.4	7.3	7.8
17	7.4	7.2	7.3	7.9	7.4	7.5	8.3	7.4	7.8	8.4	7.3	7.7
18	7.4	7.3	7.4	7.9	7.5	7.7	8.5	7.4	7.9	8.2	7.3	7.7
19	7.5	7.3	7.4	7.9	7.5	7.6	8.6	7.4	7.8	8.4	7.3	7.8
20	7.5	7.3	7.4	8.2	7.5	7.7	8.6	7.4	7.9	7.4	7.2	7.3
21	7.6	7.3	7.4	8.0	7.4	7.6	8.7	7.5	7.9	7.8	7.2	7.5
22	7.7	7.3	7.5	8.0	7.5	7.7	8.8	7.5	8.0	8.5	7.3	7.7
23	7.7	7.4	7.5	8.0	7.5	7.7	8.7	7.4	---	7.4	7.2	7.3
24	7.7	7.3	7.5	8.1	7.4	7.7	8.5	7.5	7.9	7.8	7.3	7.5
25	7.8	7.4	7.5	8.1	7.5	7.7	8.1	7.5	7.8	7.5	7.4	7.4
26	7.9	7.4	7.5	7.9	7.3	7.5	---	---	---	7.7	7.3	7.5
27	8.1	7.4	7.7	8.0	7.4	7.6	---	---	---	7.5	7.3	7.4
28	8.0	7.5	7.7	8.3	7.3	7.6	---	---	---	7.7	7.2	7.4
29	---	---	---	8.3	7.4	---	7.9	7.4	---	7.7	7.3	7.5
30	---	---	---	7.7	7.4	7.6	8.2	7.4	7.7	7.6	7.3	7.5
31	---	---	---	8.1	7.4	7.7	---	---	---	7.8	7.4	7.6
MONTH	8.1	7.1	7.4	8.5	7.3	7.7	8.8	7.4	7.7	8.5	7.2	7.6

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.4	7.6	7.2	7.1	7.2	7.8	7.3	7.4	8.6	7.0	7.6
2	8.1	7.4	7.7	7.2	7.2	---	7.3	7.2	---	8.3	6.9	7.4
3	8.3	7.4	7.7	---	---	---	---	---	---	8.6	6.9	7.6
4	8.6	7.3	7.8	---	---	---	---	---	---	8.3	7.2	7.6
5	8.6	7.4	7.8	7.1	7.1	---	---	---	---	8.4	7.3	7.7
6	8.4	7.4	7.8	7.3	7.2	7.2	---	---	---	7.9	7.1	7.4
7	8.8	7.3	7.7	7.3	7.2	7.2	---	---	---	7.9	7.1	7.4
8	8.4	7.3	7.7	7.4	7.2	7.3	7.7	7.1	---	8.0	7.1	7.4
9	8.5	7.2	7.8	7.4	7.1	7.3	7.4	7.0	7.2	7.8	6.9	7.3
10	8.6	7.2	7.7	7.2	7.0	---	8.3	6.9	7.3	8.6	6.9	7.6
11	8.4	7.1	7.5	7.6	7.3	---	8.3	7.2	7.6	8.4	7.2	7.7
12	8.4	7.1	7.6	7.9	7.2	7.5	8.1	7.2	7.5	7.9	7.2	7.5
13	8.0	7.0	7.4	8.0	7.2	7.6	8.3	7.2	7.6	7.8	7.2	7.5
14	7.9	6.9	7.3	8.3	7.2	7.6	8.2	7.3	7.6	7.6	7.1	7.4
15	8.3	6.9	7.5	7.6	7.2	7.4	8.0	7.3	7.6	7.7	7.3	7.5
16	7.8	7.0	7.3	8.1	7.2	7.6	8.2	7.2	7.5	7.8	7.2	7.4
17	8.1	7.0	7.4	7.8	7.1	7.4	8.1	7.2	7.5	7.5	7.2	7.3
18	7.6	6.9	7.2	8.1	7.1	7.5	7.9	7.2	7.5	7.6	7.2	7.4
19	7.8	7.2	7.4	8.4	7.1	7.6	8.2	7.3	7.6	7.7	7.3	7.4
20	8.3	7.2	7.5	8.3	7.1	7.6	7.8	7.2	7.4	7.7	7.2	7.4
21	8.0	7.1	7.4	7.8	7.0	7.3	7.8	7.1	7.4	7.7	7.2	7.4
22	7.2	7.0	7.1	7.9	7.1	7.4	7.9	7.2	7.5	7.5	7.2	7.3
23	7.3	6.9	7.1	8.1	7.1	7.5	8.1	7.2	7.5	7.7	7.2	7.4
24	7.2	6.6	6.9	8.1	7.1	7.5	8.3	7.1	7.5	7.9	7.1	7.4
25	7.5	6.7	7.1	8.0	7.0	7.4	8.2	7.0	7.5	7.7	7.1	7.3
26	7.4	7.2	7.3	8.0	7.0	7.3	8.5	7.0	7.6	7.9	7.1	7.4
27	7.6	7.2	7.4	8.0	7.0	7.4	8.3	7.0	7.5	7.8	7.0	7.3
28	7.8	7.1	7.4	8.0	7.0	7.4	8.0	7.0	7.4	7.7	7.0	7.3
29	7.7	6.9	7.1	7.9	6.9	7.3	7.6	6.9	7.1	7.7	7.0	7.3
30	7.4	7.1	7.2	8.0	7.0	7.5	7.3	6.8	7.0	8.0	7.0	7.4
31	---	---	---	8.1	7.3	7.5	8.6	6.8	7.7	---	---	---
MONTH	8.8	6.6	7.4	8.4	6.9	7.4	8.6	6.8	---	8.6	6.9	7.4

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	15.5	17.5	13.5	12.0	13.0	7.0	6.0	6.5	11.5	9.5	10.5
2	20.5	15.0	17.0	15.0	13.5	14.0	8.5	6.0	7.0	9.5	8.0	8.5
3	20.5	14.5	17.0	16.5	14.0	15.0	9.0	6.0	7.5	8.0	6.5	7.0
4	20.0	15.0	17.5	15.5	13.5	14.5	9.5	8.5	9.0	8.0	5.5	6.0
5	20.0	16.5	18.5	14.5	11.5	13.5	10.5	8.5	9.5	7.0	6.0	6.5
6	20.5	19.0	19.5	14.5	11.0	12.5	13.5	9.5	10.5	6.5	4.5	5.5
7	19.0	15.5	17.0	15.0	11.0	13.0	9.5	8.0	8.5	4.5	3.0	3.5
8	16.5	14.5	15.5	14.5	11.5	13.0	8.0	5.5	7.0	5.0	3.0	4.0
9	15.0	14.0	14.5	13.0	11.5	12.0	8.0	5.5	6.5	4.5	3.0	3.5
10	17.0	12.0	14.5	14.5	11.0	13.0	9.0	8.0	8.5	5.0	3.0	3.5
11	17.0	13.5	15.0	14.0	12.0	13.0	9.0	7.0	8.0	5.0	3.0	4.0
12	17.0	15.0	16.0	13.5	12.0	12.5	8.5	8.0	8.0	4.5	2.0	3.5
13	16.5	14.5	15.5	14.0	12.0	---	10.0	8.5	9.0	5.0	3.0	3.5
14	17.0	13.5	15.0	---	---	---	9.5	8.0	9.0	4.5	2.0	3.5
15	15.5	13.0	14.5	---	---	---	9.0	6.5	8.0	5.0	3.5	4.0
16	15.0	13.0	14.0	---	---	---	6.5	4.5	5.5	6.0	3.5	4.5
17	18.0	14.5	15.5	---	---	---	6.0	4.0	4.5	7.0	4.0	5.5
18	15.5	13.0	14.5	10.5	9.5	---	6.5	4.5	5.5	8.0	4.5	6.5
19	14.5	10.5	12.0	9.5	7.0	8.5	8.5	6.0	7.0	8.5	5.5	7.0
20	13.0	9.5	11.0	7.0	6.5	7.0	8.5	8.5	---	7.0	4.5	5.5
21	13.5	9.5	11.0	9.0	6.5	8.0	---	---	---	6.0	3.5	4.5
22	13.5	10.0	11.5	8.5	6.5	7.0	6.0	5.5	---	7.0	4.5	6.0
23	15.0	11.0	13.0	8.5	6.0	7.0	7.0	6.0	6.5	6.5	5.0	5.5
24	16.5	14.0	15.0	9.0	6.5	7.5	6.5	6.0	6.5	7.0	5.5	6.0
25	14.5	12.0	13.5	8.5	6.5	7.5	7.0	6.5	6.5	7.0	4.5	6.0
26	15.5	12.0	13.5	9.5	8.0	8.5	8.5	7.0	8.0	8.0	5.0	6.5
27	15.0	11.0	13.0	10.0	8.5	9.0	8.0	6.5	7.0	7.0	4.5	6.0
28	14.5	13.0	14.0	9.5	9.0	---	8.5	7.0	7.5	6.0	4.5	5.0
29	14.5	13.0	13.5	10.5	8.0	9.0	8.0	6.0	7.0	5.0	2.0	3.5
30	15.0	13.0	14.0	8.5	5.5	7.0	8.0	6.5	7.5	4.5	1.5	3.0
31	13.0	11.5	12.5	---	---	---	10.0	8.0	8.5	5.0	3.0	4.0
MONTH	20.5	9.5	14.5	16.5	5.5	---	13.5	4.0	7.5	11.5	1.5	5.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	3.5	4.0	8.5	4.5	6.5	13.5	12.0	12.5	18.5	14.0	16.0
2	5.5	3.5	4.5	10.5	6.0	8.0	13.0	11.5	12.0	19.0	15.5	17.5
3	5.5	3.5	4.5	9.0	6.5	7.5	13.5	11.5	12.5	18.5	16.5	17.5
4	7.0	4.5	5.5	9.0	6.0	7.5	12.0	10.5	11.5	16.5	14.5	15.5
5	7.0	5.0	6.0	9.5	7.0	8.5	12.0	10.0	11.0	15.0	13.0	14.0
6	7.0	6.0	6.5	9.0	8.0	8.5	14.0	9.5	12.0	18.0	13.0	15.5
7	7.0	5.5	6.5	9.0	8.0	8.5	15.0	11.0	13.0	19.5	16.5	---
8	7.0	6.0	6.5	10.0	8.5	9.0	13.5	10.5	11.5	17.0	15.5	16.0
9	5.5	3.5	4.5	12.0	8.0	10.0	14.0	9.5	11.5	18.5	15.0	17.0
10	4.5	3.5	4.0	12.0	9.0	10.5	13.0	11.0	12.0	21.0	16.0	18.5
11	5.0	2.0	3.0	10.5	10.0	10.0	12.0	9.5	11.0	21.0	18.5	19.5
12	5.5	2.0	3.5	13.0	10.5	11.5	11.5	9.5	10.5	19.5	16.5	18.0
13	6.0	2.0	4.0	14.5	10.5	12.5	13.5	9.5	11.5	19.0	15.5	17.5
14	5.0	3.0	4.0	13.0	11.0	12.0	15.0	10.5	12.5	19.5	16.0	17.5
15	6.0	3.5	5.0	13.0	11.0	11.5	16.0	11.0	13.5	18.0	16.0	17.0
16	5.5	2.0	4.5	14.0	11.5	12.5	16.5	12.0	14.5	19.5	14.5	17.0
17	4.5	1.5	2.5	15.0	10.0	13.0	16.0	14.0	15.0	20.0	15.5	17.5
18	5.0	2.0	3.0	9.5	8.0	8.5	19.0	15.0	17.0	17.0	14.5	16.0
19	5.5	3.0	4.0	9.0	7.0	8.0	19.5	16.5	18.0	18.5	14.0	16.0
20	6.5	3.5	5.0	11.5	7.0	9.5	20.0	16.0	18.0	16.5	15.0	16.0
21	8.0	5.5	6.0	10.0	7.0	8.5	20.0	15.5	18.0	16.5	15.0	15.5
22	7.0	5.0	6.0	9.0	7.0	8.5	21.0	16.5	19.0	20.5	15.5	18.0
23	7.0	4.5	5.5	10.5	6.5	8.5	20.5	18.0	19.5	18.5	16.0	17.5
24	7.0	4.5	5.5	12.0	7.0	9.5	20.5	16.0	18.5	17.0	15.5	16.5
25	7.0	4.0	5.5	9.5	8.0	9.0	18.5	16.0	17.0	16.0	14.5	15.0
26	8.5	6.0	7.0	10.5	7.0	9.0	---	---	---	16.0	14.5	15.5
27	7.0	5.5	6.0	14.0	10.0	12.0	---	---	---	15.5	14.0	14.5
28	8.0	4.0	6.0	14.0	10.0	12.0	---	---	---	16.0	13.5	14.5
29	---	---	---	14.0	10.5	12.0	16.0	14.0	---	20.0	15.5	18.0
30	---	---	---	13.0	11.5	12.0	15.5	13.0	14.0	21.0	16.5	19.0
31	---	---	---	14.0	11.5	13.0	---	---	---	20.5	18.0	19.0
MONTH	8.5	1.5	5.0	15.0	4.5	10.0	21.0	9.5	14.0	21.0	13.0	16.5

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	17.0	19.5	24.5	21.0	23.0	26.0	24.5	25.0	31.5	25.5	28.5
2	21.0	18.0	19.5	23.5	23.0	---	24.5	24.0	---	30.5	25.5	28.0
3	21.5	18.5	20.0	---	---	---	---	---	---	30.5	25.5	28.0
4	24.5	19.5	21.5	---	---	---	---	---	---	30.5	25.5	28.0
5	25.0	20.5	22.5	24.5	22.0	---	---	---	---	30.5	26.0	28.0
6	26.0	21.0	23.5	25.0	21.0	23.0	---	---	---	29.0	26.0	27.0
7	24.5	21.5	23.0	25.5	21.0	23.5	---	---	---	29.0	24.0	26.0
8	26.0	21.0	23.5	26.0	22.0	24.0	29.5	26.0	---	28.5	23.0	25.5
9	26.5	22.0	24.5	27.0	23.5	25.0	30.0	26.0	27.5	25.5	23.0	24.0
10	27.0	23.0	25.0	25.0	24.0	---	30.5	26.0	28.0	26.5	20.0	23.5
11	26.5	23.5	25.0	25.0	22.0	---	29.0	26.0	27.5	27.0	20.5	24.0
12	28.0	24.0	25.5	24.5	20.5	22.0	28.5	25.0	26.5	26.0	23.0	24.0
13	26.5	23.5	25.0	25.0	20.5	22.5	29.5	25.5	27.0	26.5	22.0	24.0
14	26.0	22.0	24.0	26.5	22.0	24.5	28.0	26.0	26.5	25.0	19.5	22.5
15	26.0	21.0	23.5	25.0	21.5	23.0	28.5	25.5	26.5	23.0	19.5	21.0
16	23.5	21.0	22.5	25.5	21.0	23.5	27.0	25.5	26.0	24.5	20.0	22.0
17	23.0	20.5	21.5	24.0	22.0	23.0	28.0	25.0	26.0	24.0	21.5	22.5
18	21.0	20.0	20.5	26.0	21.5	23.5	26.0	24.5	25.0	25.0	21.5	23.0
19	21.0	19.5	20.5	26.5	23.0	24.5	28.0	23.5	25.5	24.0	20.0	21.5
20	23.5	20.5	22.0	27.0	23.5	25.0	26.5	24.5	25.5	24.0	20.0	22.0
21	25.0	21.5	23.0	25.5	23.0	24.5	25.5	23.5	24.5	21.5	20.0	21.0
22	23.5	21.5	22.5	24.5	22.0	23.5	26.0	23.5	24.5	23.0	20.5	21.5
23	24.5	21.0	22.5	27.0	23.0	24.5	27.0	23.0	24.5	25.0	21.0	23.0
24	23.5	20.5	21.5	27.0	23.0	25.0	26.0	22.0	24.0	26.0	21.5	23.5
25	23.0	21.0	22.0	26.5	23.5	24.5	28.0	22.0	25.0	24.0	22.0	23.0
26	24.5	21.5	22.5	27.0	24.0	25.5	27.0	23.0	25.0	25.0	20.5	22.5
27	25.0	22.0	23.5	29.0	25.0	26.0	29.0	24.5	26.5	25.5	21.0	23.0
28	25.5	23.0	24.0	29.0	25.0	26.5	30.5	26.5	28.0	25.0	21.5	23.5
29	24.0	20.5	21.5	28.0	25.0	26.0	31.0	26.0	28.5	26.0	23.5	24.5
30	24.0	21.5	22.5	28.5	24.0	26.0	31.5	27.0	29.0	24.5	20.5	22.5
31	---	---	---	28.0	24.5	26.0	31.5	26.5	29.0	---	---	---
MONTH	28.0	17.0	22.5	29.0	20.5	24.5	31.5	22.0	---	31.5	19.5	24.0

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA.

LOCATION.--Lat 40°02'05", long 75°42'32", Chester County, on right bank 20 ft (6 m) downstream from bridge on Dowlin Forge Road, 200 ft (61 m) east of State Highway 282, 0.4 mile (0.6 km) downstream from Shamona Creek, 1.5 miles (2.4 km) downstream from Marsh Creek, 2.0 miles (3.2 km) upstream from Beaver Creek, and 2.2 miles (3.5 km) north of Downingtown.

DRAINAGE AREA.--60.6 mi^2 (157 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1966 and 1970 (partial-record station), October 1970 to September 1972, March to September 1973.
Water temperatures: February to June 1972, March to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 343 micromhos Sept. 14; minimum, 115 micromhos May 28.
pH: Maximum, 9.9 May 13, June 5; minimum, 6.2 June 28.

Period of record:
Specific conductance (February to September 1973): Maximum, 343 micromhos Sept. 14, 1973; minimum, 115 micromhos May 28, 1973.
pH (February to September 1973): Maximum, 9.9 May 13, June 5, 1973; minimum, 6.2 June 28, 1973.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	215	203	207	---	---	---	191	186	189
2	---	---	---	209	201	205	---	---	---	195	189	191
3	---	---	---	217	200	206	---	---	---	200	190	195
4	---	---	---	211	198	202	---	---	---	192	188	190
5	---	---	---	209	198	202	---	---	---	197	190	193
6	---	---	---	210	203	206	---	---	---	205	190	197
7	---	---	---	209	203	206	---	---	---	202	200	201
8	---	---	---	205	192	198	---	---	---	203	200	201
9	---	---	---	203	195	198	170	164	---	198	180	---
10	---	---	---	217	201	208	170	138	155	---	---	---
11	---	---	---	217	210	213	174	159	167	208	200	---
12	---	---	---	210	207	209	181	176	179	205	200	202
13	---	---	---	210	205	207	205	180	187	205	200	202
14	---	---	---	220	213	217	188	184	186	209	200	205
15	---	---	---	220	210	215	189	184	186	210	204	207
16	---	---	---	217	210	213	199	187	197	205	198	200
17	---	---	---	215	172	194	196	180	187	209	201	206
18	---	---	---	199	174	189	189	180	186	202	198	199
19	---	---	---	210	199	205	190	185	189	205	199	201
20	---	---	---	216	209	211	191	189	---	206	180	196
21	---	---	---	215	205	210	---	---	---	199	180	190
22	---	---	---	211	206	209	---	---	---	210	199	202
23	---	---	---	216	206	210	195	183	---	210	191	205
24	---	---	---	220	209	213	188	178	182	201	191	196
25	---	---	---	211	201	208	199	185	192	198	181	187
26	---	---	---	200	200	---	180	141	155	203	190	198
27	201	198	---	---	---	---	172	151	166	205	175	198
28	208	200	202	---	---	---	176	155	165	170	115	142
29	---	---	---	---	---	---	190	175	179	188	150	172
30	---	---	---	---	---	---	190	186	189	180	149	167
31	---	---	---	---	---	---	---	---	---	186	169	176
MONTH	---	---	---	220	172	206	---	---	---	210	115	193

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	208	187	197	---	---	---	267	209	249	313	300	305
2	225	209	217	---	---	---	213	129	158	310	292	302
3	234	224	228	---	---	---	226	170	200	300	282	292
4	238	215	229	---	---	---	246	224	237	295	279	286
5	229	213	222	---	---	---	252	241	247	297	275	284
6	236	225	230	190	180	---	269	249	255	291	284	288
7	239	220	229	202	190	197	262	250	258	298	282	288
8	235	228	231	212	201	205	267	252	260	308	290	296
9	238	233	236	230	209	214	266	253	260	310	300	305
10	242	230	237	230	222	229	263	250	259	319	297	307
11	242	238	240	230	200	---	269	254	260	336	313	320
12	245	239	241	220	210	216	270	244	253	338	300	323
13	240	216	227	239	220	224	260	248	255	334	320	327
14	242	230	235	240	230	236	265	250	259	343	199	283
15	247	239	244	235	210	224	269	238	261	243	201	217
16	247	235	242	232	215	225	262	220	246	280	241	260
17	237	222	229	235	230	232	273	255	263	286	263	276
18	249	230	237	240	230	236	272	263	269	290	240	---
19	243	232	237	244	230	237	275	261	267	288	239	256
20	240	228	234	245	240	---	275	252	266	278	259	267
21	243	237	240	247	238	242	270	251	263	287	269	278
22	245	230	240	241	235	---	279	260	267	295	279	285
23	240	230	235	258	239	244	279	260	270	289	262	274
24	253	238	---	249	238	243	289	274	281	281	260	270
25	198	198	---	248	231	242	286	274	281	286	275	280
26	200	190	197	249	237	242	290	282	287	295	274	286
27	240	200	227	249	235	242	299	274	284	297	281	289
28	233	220	---	249	239	245	300	270	281	301	290	296
29	---	---	---	249	245	---	312	285	299	300	286	294
30	---	---	---	264	254	---	301	287	294	292	265	276
31	---	---	---	267	252	260	314	282	298	---	---	---
MONTH	253	187	230	267	180	---	314	129	261	343	199	287

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	11.8	8.2	10.1
2	---	---	---	---	---	---	---	---	---	11.4	7.7	9.4
3	---	---	---	---	---	---	---	---	---	10.3	7.6	8.6
4	---	---	---	---	---	---	---	---	---	10.9	8.1	9.5
5	---	---	---	---	---	---	---	---	---	12.1	8.9	10.2
6	---	---	---	---	---	---	---	---	---	11.9	8.4	10.1
7	---	---	---	12.9	11.0	---	---	---	---	12.4	7.6	10.1
8	---	---	---	12.9	10.5	11.4	---	---	---	11.5	7.6	9.5
9	---	---	---	13.3	10.0	11.6	11.5	10.1	---	8.5	8.3	---
10	---	---	---	13.6	9.7	11.4	10.8	10.2	10.6	---	---	---
11	---	---	---	12.9	9.8	11.1	12.7	11.0	11.6	10.9	7.8	---
12	---	---	---	12.4	9.5	10.9	12.3	10.7	11.4	11.7	7.7	9.5
13	---	---	---	13.6	9.0	11.0	12.3	10.9	---	12.1	8.1	9.9
14	---	---	---	13.4	9.0	10.8	---	---	---	12.4	8.0	9.7
15	---	---	---	12.9	9.2	10.6	---	---	---	11.4	8.0	9.4
16	---	---	---	13.1	8.5	10.2	---	---	---	12.4	7.6	10.0
17	---	---	---	---	---	---	11.2	8.8	---	12.0	7.4	9.3
18	---	---	---	---	---	---	11.3	7.7	9.5	11.6	7.6	9.7
19	---	---	---	13.8	11.1	---	10.9	7.5	8.9	12.6	7.6	10.0
20	---	---	---	13.9	10.0	11.9	8.0	7.4	---	9.4	7.6	8.6
21	---	---	---	14.0	9.9	11.7	---	---	---	10.9	8.6	9.4
22	---	---	---	14.2	10.2	11.9	---	---	---	11.8	7.2	9.5
23	---	---	---	14.4	9.6	12.0	11.5	7.2	---	9.0	7.2	8.3
24	---	---	---	14.2	9.1	11.4	11.1	7.5	9.0	10.4	8.6	9.2
25	---	---	---	14.2	9.1	11.4	11.1	7.6	9.3	9.7	8.6	9.3
26	---	---	---	10.7	9.5	---	9.7	8.7	9.4	10.4	8.8	9.4
27	---	---	---	---	---	---	9.7	9.1	9.4	9.9	8.8	9.3
28	---	---	---	---	---	---	9.7	9.0	9.3	9.4	8.3	8.8
29	---	---	---	---	---	---	11.2	9.0	10.0	8.8	8.0	8.4
30	---	---	---	---	---	---	11.7	9.1	10.4	9.2	8.0	8.5
31	---	---	---	---	---	---	---	---	---	9.5	8.2	8.7
MONTH	---	---	---	---	---	---	---	---	---	12.6	7.2	9.4

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.8	7.7	8.8	---	---	---	---	---	---	7.2	3.2	4.9
2	9.9	7.7	8.7	---	---	---	---	---	---	6.5	2.8	4.3
3	10.0	7.2	8.6	---	---	---	6.5	5.9	---	8.9	2.6	5.3
4	10.0	6.8	8.2	---	---	---	7.0	5.7	6.3	8.3	4.2	5.8
5	9.7	6.5	7.9	---	---	---	7.3	5.8	6.4	8.5	4.2	6.0
6	9.4	6.0	7.4	---	---	---	7.3	5.1	6.3	8.1	4.7	6.1
7	8.4	6.0	7.1	---	---	---	8.0	5.1	6.4	8.4	5.3	6.5
8	9.8	6.1	7.6	---	---	---	8.0	5.1	6.4	8.9	5.6	6.9
9	9.5	5.5	7.3	---	---	---	7.5	5.0	6.1	8.7	5.6	6.8
10	8.9	4.7	6.6	---	---	---	9.7	5.0	7.0	9.4	5.8	7.1
11	9.1	5.5	---	---	---	---	8.6	4.9	6.2	8.7	3.5	6.2
12	8.8	4.9	6.6	---	---	---	8.7	5.3	6.7	7.3	3.3	4.9
13	7.9	4.6	6.2	---	---	---	8.9	4.7	6.6	8.4	4.1	5.9
14	8.4	5.2	6.5	---	---	---	7.3	5.1	6.2	4.6	4.3	---
15	9.0	5.2	6.8	---	---	---	8.7	5.7	6.9	---	---	---
16	7.7	5.6	6.7	---	---	---	7.7	5.4	6.4	---	---	---
17	8.6	6.4	7.4	---	---	---	9.2	6.3	7.4	7.7	4.9	---
18	8.2	6.4	7.3	---	---	---	8.8	6.4	7.4	8.5	4.3	---
19	7.9	6.3	7.0	---	---	---	9.2	6.0	7.5	8.7	6.8	7.6
20	8.0	5.8	6.9	---	---	---	8.7	6.0	6.9	8.8	6.9	7.7
21	7.7	5.4	6.3	---	---	---	9.5	6.3	7.6	9.2	6.9	7.9
22	6.6	5.4	5.9	---	---	---	9.8	6.7	7.9	9.0	6.8	7.9
23	7.5	5.3	6.3	---	---	---	10.1	6.7	8.0	7.7	6.1	6.8
24	7.2	5.2	---	---	---	---	10.2	6.7	8.0	8.2	5.6	6.8
25	---	---	---	---	---	---	10.1	6.2	7.8	7.6	5.6	6.4
26	6.2	5.6	---	---	---	---	9.8	5.7	7.4	7.8	4.7	6.3
27	6.1	5.4	5.7	---	---	---	9.2	5.3	6.9	8.1	5.9	6.9
28	6.5	5.5	---	---	---	---	8.8	4.4	6.2	8.0	5.5	6.5
29	---	---	---	---	---	---	8.1	3.9	5.5	6.7	4.8	5.5
30	---	---	---	---	---	---	7.8	3.6	5.2	8.1	4.8	6.3
31	---	---	---	---	---	---	8.4	3.5	5.4	---	---	---
MONTH	10.0	4.6	---	---	---	---	10.2	3.5	6.8	9.4	2.6	6.4

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.5	6.9	7.6
2	---	---	---	---	---	---	---	---	---	8.5	7.1	7.7
3	---	---	---	---	---	---	---	---	---	7.8	7.1	7.4
4	---	---	---	---	---	---	---	---	---	8.1	6.9	7.4
5	---	---	---	---	---	---	---	---	---	8.1	6.7	7.3
6	---	---	---	---	---	---	---	---	---	8.7	6.8	7.6
7	---	---	---	8.4	8.3	---	---	---	---	9.3	7.8	8.4
8	---	---	---	8.8	7.8	8.4	---	---	---	8.5	7.3	7.8
9	---	---	---	8.9	7.1	7.9	8.0	7.5	---	7.5	7.3	---
10	---	---	---	9.0	7.3	8.0	8.0	7.5	7.8	---	---	---
11	---	---	---	8.0	7.3	7.6	8.0	7.4	7.7	9.1	7.9	---
12	---	---	---	8.9	7.3	7.9	8.2	7.4	7.9	9.3	7.4	8.3
13	---	---	---	9.3	7.4	8.1	8.3	7.3	7.8	9.9	7.7	8.7
14	---	---	---	8.8	7.3	7.9	8.6	7.5	8.1	9.8	8.1	8.8
15	---	---	---	8.7	7.3	7.8	9.1	7.9	8.3	8.9	7.8	8.2
16	---	---	---	7.5	7.1	---	9.3	7.8	8.4	9.8	7.7	8.6
17	---	---	---	---	---	---	8.7	7.8	8.2	9.9	7.8	8.7
18	---	---	---	---	---	---	9.3	7.7	8.3	9.3	7.6	8.4
19	---	---	---	8.6	7.6	---	9.2	7.7	8.2	9.8	7.6	8.5
20	---	---	---	9.1	7.6	8.1	7.9	7.2	---	8.3	7.6	7.9
21	---	---	---	9.0	7.7	8.2	---	---	---	8.5	7.7	8.0
22	---	---	---	9.1	7.6	8.2	---	---	---	9.8	7.6	8.5
23	---	---	---	9.3	7.5	8.2	9.1	7.5	---	8.2	7.6	7.8
24	---	---	---	9.5	7.7	8.4	8.6	7.1	7.7	7.9	7.4	7.7
25	---	---	---	9.3	7.8	8.4	7.8	7.1	7.4	7.8	7.3	7.5
26	---	---	---	8.2	7.4	---	7.1	6.6	6.8	7.8	7.3	7.6
27	---	---	---	---	---	---	6.9	6.4	6.7	7.7	7.1	7.4
28	---	---	---	---	---	---	6.9	6.6	6.8	9.0	7.1	7.9
29	---	---	---	---	---	---	7.5	6.6	7.0	9.2	7.8	8.4
30	---	---	---	---	---	---	7.7	6.6	7.1	8.2	7.7	8.0
31	---	---	---	---	---	---	---	---	---	8.3	7.4	7.9
MONTH	---	---	---	---	---	---	---	---	---	9.9	6.7	8.0

DELAWARE RIVER BASIN

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.4	7.9	---	---	---	7.6	6.9	7.2	8.4	7.5	7.9
2	8.5	7.5	8.0	---	---	---	7.1	6.7	7.0	8.5	7.6	7.9
3	8.7	7.3	8.0	---	---	---	7.2	7.0	---	8.4	7.5	7.9
4	9.6	7.6	8.5	---	---	---	---	---	---	8.3	7.4	7.8
5	9.9	8.2	8.8	---	---	---	---	---	---	8.3	7.4	7.8
6	8.9	7.4	8.3	7.8	7.2	---	---	---	---	8.1	7.4	7.8
7	8.4	7.5	8.0	7.8	7.1	7.4	8.1	7.4	---	8.1	7.4	7.8
8	9.1	7.4	8.1	7.8	7.1	7.4	7.9	7.0	7.5	8.2	7.2	7.7
9	9.1	7.6	8.3	7.8	7.1	7.5	8.2	7.3	7.7	7.9	7.3	7.6
10	9.1	7.7	8.3	8.0	7.1	7.5	9.5	8.2	8.8	8.2	7.1	7.6
11	8.7	7.5	8.1	7.6	7.1	---	8.9	8.1	8.4	8.3	7.3	7.7
12	9.3	7.4	8.3	7.9	7.0	7.4	8.9	8.1	8.4	8.1	7.5	7.8
13	8.7	7.7	8.2	8.5	7.0	7.6	8.9	8.0	8.3	8.2	7.4	7.8
14	9.0	7.5	8.2	8.8	7.2	7.9	8.9	8.0	8.4	7.9	7.5	7.7
15	8.9	7.5	8.2	7.7	7.3	7.5	8.6	7.9	8.2	8.1	7.4	7.8
16	8.1	7.5	7.9	8.2	7.3	7.7	8.3	7.6	7.9	8.2	7.7	7.9
17	8.3	7.5	8.0	8.2	7.2	7.6	8.9	7.8	8.3	8.3	7.6	7.9
18	7.9	7.3	7.6	8.3	7.1	7.6	8.9	6.8	8.1	8.2	7.6	---
19	7.7	7.3	7.5	8.9	7.1	7.9	9.1	8.1	8.5	8.4	7.8	8.0
20	8.4	7.3	7.8	7.6	7.3	---	8.5	7.8	8.1	8.5	7.6	8.0
21	8.1	7.4	7.8	---	---	---	8.8	7.9	8.3	8.2	7.7	8.0
22	7.9	7.4	7.7	---	---	---	9.1	7.9	8.3	8.3	7.8	8.0
23	8.3	7.3	7.8	8.6	7.6	---	9.1	7.4	8.1	8.5	7.7	8.0
24	8.1	7.4	---	8.7	7.2	7.9	8.9	7.4	8.0	9.2	7.5	8.3
25	---	---	---	8.9	7.3	7.9	8.8	7.5	8.0	8.5	7.9	8.2
26	7.8	7.2	---	8.9	7.3	7.9	8.7	7.3	7.8	8.7	7.6	8.2
27	7.8	6.8	7.4	8.5	6.9	7.6	8.4	7.2	7.7	9.7	8.4	9.0
28	6.8	6.2	---	8.5	6.8	7.5	8.6	7.6	8.0	8.8	7.4	8.3
29	---	---	---	7.2	6.8	---	8.4	7.6	7.9	7.8	7.2	7.5
30	---	---	---	8.8	7.5	---	8.2	7.4	7.8	7.4	6.7	7.0
31	---	---	---	8.5	6.6	7.4	8.5	7.5	7.9	---	---	---
MONTH	9.9	6.2	8.0	---	---	---	9.5	6.7	8.0	9.7	6.7	7.9

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.5	3.0	5.0	---	---	---	17.0	11.5	14.5
2	---	---	---	9.0	4.5	7.0	---	---	---	18.0	15.0	16.5
3	---	---	---	8.5	6.5	7.0	---	---	---	18.0	15.5	16.5
4	---	---	---	9.0	6.0	7.5	---	---	---	15.5	12.0	13.5
5	---	---	---	9.0	7.0	8.5	---	---	---	12.0	10.5	11.5
6	---	---	---	8.5	7.0	8.0	---	---	---	16.5	10.5	13.5
7	---	---	---	8.5	7.0	7.5	---	---	---	18.0	13.0	15.5
8	---	---	---	10.0	8.5	9.0	---	---	---	16.0	14.0	14.5
9	---	---	---	11.0	8.0	9.5	11.5	10.5	---	14.0	14.0	---
10	---	---	---	11.0	8.5	10.0	11.0	9.0	10.0	---	---	---
11	---	---	---	10.5	9.0	9.5	9.5	6.5	8.0	19.5	18.0	---
12	---	---	---	11.5	9.5	10.5	9.0	6.0	7.5	17.0	14.5	16.0
13	---	---	---	13.0	10.0	11.5	10.5	5.5	8.0	16.5	13.0	15.0
14	---	---	---	11.5	10.0	10.5	12.0	6.5	9.5	16.5	13.5	15.0
15	---	---	---	10.5	9.5	10.0	13.5	8.0	11.0	15.5	13.5	14.0
16	---	---	---	12.0	10.0	11.0	15.0	9.5	12.5	16.5	11.0	14.0
17	---	---	---	14.5	10.5	12.5	14.5	12.0	13.5	17.0	13.0	15.0
18	---	---	---	10.0	5.5	7.0	16.5	13.5	15.0	14.5	11.5	13.0
19	---	---	---	6.5	5.0	5.5	17.0	14.5	16.0	16.0	10.5	13.5
20	---	---	---	9.5	5.0	7.5	15.5	14.0	---	15.0	13.5	14.0
21	---	---	---	8.5	6.0	7.5	---	---	---	14.5	13.0	13.5
22	---	---	---	8.0	6.0	6.5	---	---	---	18.5	13.0	16.0
23	---	---	---	9.0	4.5	7.0	20.0	18.0	---	17.0	13.5	15.0
24	---	---	---	10.5	5.5	8.5	19.0	15.0	17.0	14.0	13.5	13.5
25	---	---	---	9.0	7.0	8.5	17.0	13.5	15.0	13.5	12.0	13.0
26	---	---	---	9.0	8.0	---	13.5	11.5	11.5	13.5	12.0	13.0
27	5.5	4.5	---	---	---	---	11.5	11.0	11.0	13.0	11.5	12.0
28	5.5	2.0	4.0	---	---	---	11.5	10.5	11.0	16.0	11.5	14.0
29	---	---	---	---	---	---	14.5	9.5	11.5	19.5	16.0	17.5
30	---	---	---	---	---	---	14.0	10.5	12.5	20.5	15.5	18.0
31	---	---	---	---	---	---	---	---	---	20.0	17.0	18.5
MONTH	---	---	---	14.5	3.0	8.5	---	---	---	20.5	10.5	14.5

DELAWARE RIVER BASIN

01480700 EAST BRANCH BRANDYWINE CREEK NEAR DOWNINGTOWN, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	15.5	18.5	---	---	---	---	---	---	28.0	24.0	25.5
2	20.0	17.0	19.0	---	---	---	---	---	---	28.5	24.5	26.0
3	20.5	18.0	19.0	---	---	---	24.5	23.5	---	29.0	24.5	26.5
4	23.0	18.5	20.5	---	---	---	25.0	22.0	23.5	28.5	24.5	26.5
5	24.0	20.0	22.0	---	---	---	25.5	22.0	24.0	28.5	24.5	26.5
6	24.5	21.0	22.5	---	---	---	26.0	21.5	23.5	27.0	25.0	26.0
7	23.5	21.5	22.0	---	---	---	25.5	21.5	23.5	26.5	23.5	24.5
8	24.5	20.0	22.0	---	---	---	26.0	23.0	24.5	25.5	20.5	23.0
9	25.5	21.5	23.5	---	---	---	27.0	23.5	25.0	24.0	21.0	22.0
10	26.0	22.0	24.0	---	---	---	28.5	24.0	26.0	23.5	18.5	20.5
11	25.5	22.0	24.0	---	---	---	26.5	24.5	25.5	24.0	18.5	21.0
12	26.5	23.0	24.5	---	---	---	26.0	23.5	24.5	24.0	20.0	21.5
13	25.0	23.0	24.0	---	---	---	26.0	23.0	24.5	22.0	19.0	20.5
14	24.5	21.0	22.5	---	---	---	25.0	23.5	24.0	22.0	19.5	20.5
15	24.0	19.5	21.5	---	---	---	25.0	23.0	24.0	23.0	18.5	20.5
16	21.0	20.0	20.5	---	---	---	24.0	23.0	23.5	22.0	19.5	20.5
17	21.0	19.5	20.5	---	---	---	25.5	21.5	23.5	21.0	19.5	20.5
18	19.5	18.5	19.0	---	---	---	24.0	22.0	23.0	21.5	19.5	---
19	19.0	18.0	18.5	---	---	---	25.0	21.5	23.0	20.5	17.0	19.0
20	21.5	19.0	20.0	---	---	---	24.0	21.5	22.5	20.0	16.0	18.0
21	22.0	20.0	21.0	---	---	---	22.0	20.5	21.5	18.0	16.5	17.5
22	21.0	20.0	20.5	---	---	---	23.0	20.0	21.0	19.0	16.5	17.5
23	22.0	19.5	20.5	---	---	---	23.5	19.0	21.0	22.0	18.5	20.0
24	21.5	20.0	---	---	---	---	23.0	19.0	20.5	21.5	18.5	20.0
25	21.5	20.0	---	---	---	---	24.5	20.0	22.0	20.5	19.0	19.5
26	23.0	19.5	21.0	---	---	---	25.0	20.5	23.0	20.5	17.0	19.0
27	23.5	21.0	22.0	---	---	---	26.5	22.0	24.5	21.0	18.0	19.5
28	23.5	21.0	---	---	---	---	29.0	24.5	26.5	21.5	19.0	20.0
29	---	---	---	---	---	---	29.0	24.5	26.5	22.0	20.5	21.0
30	---	---	---	---	---	---	30.0	25.0	27.0	20.5	18.0	19.5
31	---	---	---	---	---	---	28.5	25.5	26.5	---	---	---
MONTH	26.5	15.5	21.5	---	---	---	30.0	19.0	24.0	29.0	16.0	21.5

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.

LOCATION.--Lat 39°52'09", long 75°35'35", Delaware County, at gaging station located on left bank 27 ft (8 m) upstream from Pennsylvania Railroad Bridge at Chadds Ford, and 1,200 ft (366 m) downstream from highway bridge on U.S. Highway 1. Sediment samples collected at U.S. Highway 1 bridge.

DRAINAGE AREA.--287 mi^2 (743 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1973.
Water temperatures: October 1964 to September 1973.
Sediment records: July 1963 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 250 micromhos Sept. 13; minimum, 119 micromhos Nov. 20.

Period of record:
Specific conductance (1965-73): Maximum, 445 micromhos Oct. 25, 1971; minimum, 71 micromhos June 23, 1972.
Water temperatures (1965-73): Maximum, 29.0°C Aug. 9,17, 1965; minimum daily, freezing point on many days during winter months.

REMARKS.--Sediment data for this station on page 347. Unpublished records of specific conductance, pH, and temperature of sediment samples available in the district office at Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE			
18...	0715	402	2.0
25...	1330	921	7.5
JULY			
02...	1100	775	4.0
09...	1230	465	1.0
18...	1300	385	.0
24...	1030	335	1.0
31...	1015	278	.0
AUG.			
06...	1100	297	1.0
13...	0930	256	.0
20...	1000	243	1.0
27...	1045	202	.0
SEP.			
03...	1130	210	.0
10...	0930	157	.0
17...	1020		3.0
24...	1100	198	6.0

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	224	221	223	219	209	214	223	176	193	178	169	172
2	224	218	220	232	218	224	195	171	182	179	173	176
3	220	212	217	232	227	230	183	173	177	182	179	181
4	223	212	220	234	228	230	188	181	183	181	155	170
5	224	217	220	236	228	231	202	189	198	174	157	166
6	230	202	221	236	228	230	204	171	195	182	173	179
7	204	180	193	236	228	230	171	146	155	192	181	183
8	192	182	186	229	141	182	187	153	174	192	185	188
9	204	192	198	163	145	155	154	124	139	194	189	191
10	210	204	208	179	163	173	169	155	164	195	187	192
11	219	207	212	184	169	175	172	166	168	193	186	190
12	227	219	222	178	173	176	189	171	180	194	185	189
13	226	221	223	189	178	183	204	187	193	194	186	190
14	226	218	222	189	161	---	190	166	188	196	187	190
15	228	223	225	---	---	---	190	178	185	192	184	187
16	229	222	226	---	---	---	180	152	161	190	185	187
17	232	225	228	---	---	---	177	164	170	189	183	186
18	228	222	226	190	177	---	182	173	178	187	181	184
19	228	217	224	200	190	196	188	179	184	185	181	183
20	231	198	210	191	119	139	189	184	186	184	178	181
21	209	196	201	179	144	159	186	180	183	183	176	180
22	216	209	211	195	178	187	180	139	156	186	165	180
23	221	214	216	203	195	198	167	147	159	172	157	162
24	221	214	216	204	197	200	171	167	170	169	160	165
25	224	217	220	204	199	203	175	170	172	172	167	170
26	224	213	218	203	142	174	182	172	177	177	171	174
27	228	217	220	182	144	160	184	179	181	175	155	169
28	231	206	221	201	183	194	182	179	180	157	144	148
29	218	181	192	205	199	202	184	181	182	153	121	134
30	208	191	201	206	178	198	185	182	183	168	138	154
31	221	207	213	---	---	---	186	178	182	176	166	172
MONTH	232	180	215	236	119	194	223	124	177	196	121	177

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	181	175	178	180	175	177	186	179	---	183	180	182
2	183	122	161	179	176	177	---	---	---	184	180	183
3	148	121	134	185	175	177	184	180	---	191	181	185
4	158	149	154	185	173	179	188	169	182	196	185	190
5	181	157	164	176	173	174	179	154	167	192	185	189
6	187	170	173	185	173	180	191	180	187	193	190	192
7	176	170	173	184	182	183	201	191	196	192	187	190
8	176	170	174	184	177	181	199	169	187	193	190	192
9	175	166	170	175	172	173	186	169	178	191	171	181
10	177	170	174	180	173	176	189	167	181	186	172	180
11	182	176	178	180	178	179	187	168	182	196	187	191
12	186	177	180	180	175	178	197	188	193	197	194	195
13	186	157	168	186	176	181	204	193	197	196	191	194
14	162	158	159	190	183	185	202	196	200	195	192	194
15	171	151	161	189	184	186	203	200	201	204	195	200
16	174	167	170	187	183	185	205	200	203	204	197	200
17	178	173	176	184	174	181	209	188	198	202	196	200
18	184	178	182	172	163	167	189	185	186	200	193	197
19	183	181	182	180	174	176	192	187	189	200	194	197
20	184	178	181	189	171	180	193	188	190	201	191	197
21	183	176	180	189	185	187	195	189	191	193	180	186
22	188	176	179	199	183	191	193	188	190	200	188	195
23	182	177	179	200	197	198	193	184	188	203	197	201
24	181	179	180	199	196	197	191	180	184	203	190	197
25	180	178	180	202	193	197	187	181	185	201	187	192
26	181	177	179	192	147	170	180	152	162	201	189	195
27	181	176	179	176	173	---	170	156	165	203	200	201
28	181	175	178	184	174	180	171	158	164	201	140	164
29	---	---	---	188	183	185	177	171	174	186	156	171
30	---	---	---	188	185	187	190	177	184	200	180	---
31	---	---	---	188	183	186	---	---	---	191	180	187
MONTH	188	121	172	202	147	182	209	152	185	204	140	191

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	208	186	200	---	---	---	---	---	---	242	230	236
2	206	197	202	---	---	---	221	175	---	243	227	236
3	206	203	204	---	---	---	185	167	---	239	207	227
4	206	201	203	---	---	---	208	187	199	226	208	219
5	202	192	197	---	---	---	212	208	210	230	222	226
6	206	195	201	200	191	---	221	211	217	234	227	231
7	212	201	206	215	200	208	223	218	221	233	227	230
8	207	196	202	220	215	217	227	219	223	235	226	231
9	212	200	204	224	219	220	225	219	222	237	230	234
10	212	205	209	230	219	225	229	219	223	237	229	232
11	217	209	212	232	218	226	227	220	224	244	234	241
12	218	212	214	232	205	223	226	220	222	245	242	244
13	213	202	209	239	230	234	224	215	220	250	244	247
14	212	201	207	240	237	---	223	213	219	247	216	238
15	214	207	210	---	---	---	230	218	223	213	183	191
16	214	189	206	---	---	---	---	---	---	---	---	---
17	208	180	192	---	---	---	222	220	---	230	218	---
18	212	191	204	---	---	---	229	222	226	235	219	226
19	216	212	215	---	---	---	224	217	220	237	223	229
20	216	212	214	203	201	---	225	217	221	231	222	226
21	216	211	213	---	---	---	225	215	220	232	221	227
22	218	202	212	---	---	---	224	221	222	237	232	---
23	213	210	---	---	---	---	227	220	223	---	---	---
24	---	---	---	---	---	---	228	220	222	235	230	---
25	175	159	---	---	---	---	231	221	227	233	223	229
26	187	175	183	---	---	---	231	219	224	234	228	231
27	194	177	184	---	---	---	237	220	228	238	232	235
28	193	178	---	---	---	---	237	224	229	240	234	236
29	---	---	---	---	---	---	235	230	232	244	237	239
30	---	---	---	---	---	---	239	232	235	239	234	237
31	---	---	---	---	---	---	239	224	231	---	---	---
MONTH	218	159	204	---	---	---	239	167	222	250	183	231

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	12.3	12.0	12.2	---	---	---
2	---	---	---	---	---	---	12.2	11.7	11.9	13.0	12.0	---
3	---	---	---	---	---	---	12.0	11.3	11.7	14.2	13.0	13.9
4	9.9	9.3	---	---	---	---	11.4	11.1	11.2	13.9	13.0	13.4
5	9.7	9.1	9.4	---	---	---	12.4	11.5	12.0	---	---	---
6	8.9	8.6	---	---	---	---	11.8	10.9	11.5	---	---	---
7	---	---	---	---	---	---	12.1	10.8	11.5	---	---	---
8	---	---	---	---	---	---	12.4	12.1	12.3	---	---	---
9	---	---	---	---	---	---	12.1	11.4	11.7	14.6	14.2	---
10	---	---	---	---	---	---	11.6	10.4	10.7	14.6	14.3	14.5
11	---	---	---	---	---	---	11.3	10.4	11.0	14.5	13.9	---
12	10.1	9.5	---	---	---	---	12.4	11.4	12.0	16.3	14.1	14.5
13	10.0	9.4	9.7	---	---	---	12.3	11.6	11.9	16.5	14.4	14.8
14	10.2	9.6	9.9	---	---	---	11.8	11.6	11.7	14.7	14.1	14.4
15	10.2	9.5	9.8	---	---	---	11.8	11.6	11.8	14.1	12.8	13.5
16	10.3	9.7	10.0	---	---	---	13.1	11.5	12.1	13.8	11.9	13.0
17	10.2	9.6	9.9	---	---	---	14.4	13.1	13.8	12.4	11.5	11.9
18	10.3	9.4	9.8	12.6	12.0	---	14.6	13.6	14.2	12.1	11.3	11.6
19	11.2	10.1	10.7	12.3	11.6	12.0	13.6	13.3	---	11.6	10.2	11.2
20	11.8	11.2	11.6	11.8	11.1	11.5	---	---	---	11.9	9.1	10.4
21	12.0	11.7	---	11.3	11.1	---	---	---	---	13.6	12.2	13.2
22	---	---	---	---	---	---	---	---	---	13.6	11.6	13.0
23	---	---	---	---	---	---	---	---	---	11.8	11.4	11.6
24	---	---	---	---	---	---	---	---	---	12.7	11.9	12.3
25	9.3	8.5	---	---	---	---	---	---	---	13.6	12.8	13.3
26	10.2	9.3	---	---	---	---	---	---	---	13.6	12.7	13.2
27	---	---	---	---	---	---	---	---	---	12.7	12.1	12.4
28	---	---	---	12.2	11.0	---	---	---	---	12.4	11.9	12.2
29	---	---	---	12.0	11.7	11.8	---	---	---	13.4	11.8	---
30	---	---	---	12.2	11.9	12.1	---	---	---	14.5	13.0	---
31	---	---	---	---	---	---	---	---	---	15.0	14.1	14.5
MONTH	---	---	---	---	---	---	---	---	---	16.5	9.1	---

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.6	14.0	14.3	12.7	11.8	12.3	10.4	10.0	---	11.4	10.1	10.9
2	13.9	11.5	12.5	12.3	11.2	11.9	---	---	---	10.8	9.7	10.2
3	12.0	11.5	11.8	11.5	11.0	11.2	---	---	---	9.9	9.3	9.5
4	12.3	11.8	12.0	11.4	10.7	11.1	---	---	---	10.8	9.4	10.2
5	12.3	11.6	12.0	11.6	10.5	11.1	---	---	---	11.9	10.7	11.3
6	11.9	11.6	---	11.9	11.1	11.5	---	---	---	11.7	10.3	11.2
7	---	---	---	12.1	10.1	11.6	---	---	---	11.2	10.0	10.6
8	---	---	---	11.5	10.9	11.3	---	---	---	10.7	9.6	10.1
9	---	---	---	11.4	10.7	11.0	---	---	---	10.3	7.9	9.6
10	---	---	---	11.4	10.7	11.0	---	---	---	9.7	9.1	---
11	---	---	---	11.1	10.4	10.8	---	---	---	---	---	---
12	---	---	---	10.8	10.3	10.6	---	---	---	9.6	9.4	---
13	---	---	---	10.5	9.3	10.0	---	---	---	10.6	9.4	10.1
14	---	---	---	10.5	9.2	10.0	---	---	---	10.6	9.8	10.2
15	11.8	11.2	---	10.5	10.1	10.2	---	---	---	10.2	9.5	9.8
16	13.0	11.1	11.7	10.6	9.9	10.2	10.3	8.5	---	11.1	10.1	10.5
17	14.3	13.2	---	9.7	9.0	9.2	10.7	9.5	10.1	10.2	9.7	9.9
18	---	---	---	11.9	9.3	10.7	10.7	9.4	10.0	10.6	9.6	10.2
19	---	---	---	11.8	11.0	11.5	10.4	8.8	9.6	11.3	10.3	10.8
20	11.6	10.0	---	11.6	11.4	---	10.6	8.8	9.7	10.2	9.7	9.8
21	11.8	11.3	11.6	---	---	---	10.6	9.2	9.9	10.1	9.7	9.9
22	12.4	11.7	12.2	---	---	---	10.0	8.8	9.3	10.5	9.3	10.1
23	12.8	12.2	12.5	---	---	---	10.1	8.8	9.4	9.3	8.9	9.1
24	13.2	12.4	12.7	---	---	---	9.9	8.9	9.4	9.9	9.3	9.6
25	13.3	12.0	12.7	---	---	---	10.6	9.3	10.0	10.2	9.7	10.0
26	12.2	11.6	12.0	---	---	---	10.8	10.2	10.5	10.4	10.1	10.3
27	11.9	11.3	11.6	11.0	10.4	---	11.1	10.7	10.9	10.5	10.1	10.3
28	12.8	11.9	12.4	12.0	10.0	11.1	11.3	10.8	11.0	10.4	8.4	9.3
29	---	---	---	12.3	10.8	11.5	11.8	10.9	11.4	9.0	8.6	8.8
30	---	---	---	11.1	9.3	10.4	11.7	10.8	11.3	9.0	8.6	---
31	---	---	---	10.7	10.0	10.4	---	---	---	9.0	8.6	8.8
MONTH	---	---	---	12.7	9.0	---	---	---	---	11.9	7.9	10.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	8.7	9.0	---	---	---	---	---	---	8.3	6.4	7.3
2	9.2	8.6	8.9	---	---	---	8.6	7.4	---	8.5	6.3	7.5
3	9.2	8.7	8.9	---	---	---	7.8	7.0	---	9.2	7.1	8.2
4	9.3	8.4	8.8	---	---	---	7.6	7.0	7.3	8.8	6.9	7.8
5	8.4	8.0	8.2	---	---	---	7.8	7.0	7.3	9.2	7.4	8.3
6	8.5	7.9	8.2	7.8	7.8	---	8.6	7.0	8.0	8.8	7.3	8.1
7	8.9	7.8	8.2	8.0	7.8	7.9	8.8	7.6	8.2	9.1	7.4	8.2
8	8.8	8.0	8.3	8.0	7.6	7.8	9.0	7.6	8.2	9.4	7.8	8.6
9	8.6	7.7	8.1	8.0	7.4	7.7	8.6	7.4	7.9	9.4	8.0	8.8
10	8.6	7.5	8.0	8.0	7.4	7.7	8.4	7.0	7.7	9.4	8.3	8.9
11	8.5	7.4	7.9	8.0	7.2	7.6	8.2	6.8	7.5	9.3	8.3	8.8
12	8.5	7.4	7.9	8.4	7.4	8.1	8.2	7.0	7.7	9.0	8.0	8.4
13	8.0	7.2	7.6	9.0	8.0	8.4	8.5	7.2	7.7	8.9	7.7	8.4
14	8.7	7.4	8.1	8.0	7.6	---	8.0	7.1	7.6	8.7	8.1	8.3
15	9.2	7.9	8.5	---	---	---	8.4	7.3	7.8	8.4	8.0	8.2
16	8.7	7.9	8.3	---	---	---	---	---	---	---	---	---
17	8.6	8.1	8.2	---	---	---	8.0	6.7	---	8.7	8.2	---
18	8.9	8.3	8.7	---	---	---	8.2	7.2	7.7	8.3	7.7	8.2
19	9.1	8.8	8.9	---	---	---	8.9	7.5	8.1	8.7	8.1	8.3
20	8.9	8.4	8.7	9.1	8.1	---	8.6	7.4	8.0	9.1	8.1	8.6
21	8.5	7.8	8.2	---	---	---	9.0	7.6	8.3	9.0	8.5	8.7
22	8.3	7.7	7.9	---	---	---	9.4	8.0	8.6	9.7	8.9	---
23	8.1	8.1	---	---	---	---	9.7	8.3	8.9	---	---	---
24	---	---	---	---	---	---	9.9	8.4	9.1	9.6	9.0	---
25	8.0	7.9	---	---	---	---	10.0	8.4	9.2	9.7	8.6	9.2
26	8.1	7.6	7.9	---	---	---	9.9	8.1	9.0	10.1	8.7	9.5
27	8.1	7.6	7.8	---	---	---	9.7	7.8	8.7	10.1	9.0	9.5
28	8.0	7.4	---	---	---	---	9.3	7.4	8.3	9.9	8.8	---
29	---	---	---	---	---	---	9.1	6.9	8.0	9.4	8.2	8.9
30	---	---	---	---	---	---	9.2	6.7	7.9	9.5	8.1	8.8
31	---	---	---	---	---	---	8.8	6.6	7.6	---	---	---
MONTH	9.3	7.2	8.3	---	---	---	10.0	6.6	8.1	10.1	6.3	8.5

DELAWARE RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	9.0	7.4	7.8
2	---	---	---	---	---	---	---	---	---	7.6	7.2	7.3
3	---	---	---	---	---	---	---	---	---	7.3	7.2	7.2
4	7.9	7.7	---	---	---	---	---	---	---	7.3	7.1	7.2
5	8.1	7.7	7.9	---	---	---	---	---	---	7.3	7.0	7.2
6	7.8	7.8	---	---	---	---	---	---	---	7.3	7.1	7.3
7	---	---	---	---	---	---	---	---	---	7.4	7.2	7.3
8	---	---	---	---	---	---	---	---	---	7.4	7.2	7.3
9	---	---	---	---	---	---	---	---	---	7.4	7.0	7.3
10	---	---	---	---	---	---	---	---	---	7.4	7.2	7.3
11	---	---	---	---	---	---	---	---	---	7.4	6.9	---
12	8.1	7.7	---	---	---	---	---	---	---	7.6	7.2	7.3
13	8.0	7.4	7.7	---	---	---	---	---	---	7.4	7.1	7.3
14	8.0	7.5	7.7	---	---	---	---	---	---	7.3	7.2	7.3
15	8.1	7.5	7.8	---	---	---	---	---	---	7.3	7.2	7.3
16	8.1	7.7	7.9	---	---	---	---	---	---	7.7	7.1	7.4
17	8.3	7.9	8.1	---	---	---	---	---	---	7.8	7.7	7.8
18	8.1	7.7	7.9	---	---	---	---	---	---	7.8	7.6	7.8
19	8.0	7.7	7.8	---	---	---	7.2	7.2	---	7.8	7.7	7.8
20	8.0	7.7	7.9	---	---	---	7.2	7.1	7.2	7.7	7.6	7.6
21	7.9	7.8	---	---	---	---	7.2	7.1	7.2	7.9	7.7	7.8
22	---	---	---	---	---	---	7.3	7.1	7.2	7.8	7.5	7.7
23	---	---	---	---	---	---	7.2	7.1	7.1	7.6	7.2	7.4
24	---	---	---	---	---	---	7.2	7.2	7.2	7.4	7.2	7.3
25	7.8	7.6	---	---	---	---	7.2	7.2	7.2	7.4	7.3	7.4
26	7.6	7.4	---	---	---	---	7.3	7.2	7.2	7.6	7.3	7.4
27	---	---	---	---	---	---	7.9	7.2	7.5	7.6	7.4	7.5
28	---	---	---	---	---	---	9.7	7.7	7.9	7.4	7.2	7.3
29	---	---	---	---	---	---	7.8	7.4	7.5	7.3	7.2	7.2
30	---	---	---	---	---	---	7.6	7.5	7.6	7.4	7.3	7.3
31	---	---	---				8.1	7.5	7.7	7.5	7.4	7.4
MONTH	---	---	---	---	---	---	---	---	---	9.0	6.9	7.4

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.4	7.5	8.0	7.5	7.8	---	---	---	7.8	7.1	7.5
2	7.8	7.3	7.5	8.0	7.6	7.9	---	---	---	7.9	7.2	7.5
3	7.4	7.3	7.3	8.2	7.8	8.0	---	---	---	7.5	7.1	7.3
4	7.4	7.4	7.4	8.6	8.0	8.2	---	---	---	7.4	7.1	7.2
5	7.4	7.0	7.4	8.6	8.0	8.3	---	---	---	7.7	7.2	7.4
6	7.5	7.2	7.4	8.5	8.2	---	---	---	---	8.0	7.2	7.6
7	7.6	7.5	7.6	---	---	---	---	---	---	8.1	7.1	7.6
8	7.6	7.5	7.6	---	---	---	---	---	---	7.9	7.1	7.4
9	7.7	7.5	7.6	---	---	---	---	---	---	7.3	7.1	7.2
10	7.7	7.6	7.7	---	---	---	---	---	7.7	7.4	7.1	7.2
11	7.7	7.6	7.7	---	---	---	---	---	7.8	7.4	7.1	7.3
12	7.7	7.6	7.7	---	---	---	---	---	7.8	7.3	7.0	7.2
13	7.7	7.7	---	---	---	---	---	---	7.8	7.5	7.0	7.2
14	---	---	---	---	---	---	---	---	7.7	7.3	6.9	7.1
15	7.2	7.1	---	---	---	---	---	---	7.5	7.0	6.7	6.8
16	7.4	7.1	7.2	---	---	---	---	---	7.1	8.0	6.6	7.2
17	7.4	7.3	---	---	---	---	7.9	7.5	---	7.9	7.5	7.7
18	---	---	---	---	---	---	8.4	7.1	---	7.7	7.4	7.5
19	---	---	---	---	---	---	8.4	7.3	---	8.1	7.4	7.7
20	7.5	7.4	---	---	---	---	8.4	7.2	---	7.9	7.5	7.6
21	7.8	7.4	7.6	---	---	---	8.3	7.2	---	8.7	7.4	7.8
22	7.7	7.5	7.6	---	---	---	8.1	7.2	---	7.9	7.4	7.7
23	7.7	7.5	7.6	---	---	---	7.8	7.2	---	7.6	7.3	7.4
24	7.6	7.5	7.6	---	---	---	7.3	7.0	---	7.6	7.3	7.3
25	7.7	7.5	7.6	---	---	---	7.2	6.9	7.1	7.8	7.2	7.5
26	7.7	7.5	7.6	---	---	---	7.0	6.8	6.9	7.9	7.5	7.7
27	8.0	7.4	7.7	---	---	---	7.1	6.9	7.0	7.8	7.7	7.8
28	7.9	7.5	7.8	---	---	---	7.1	6.8	7.0	8.2	7.8	---
29	---	---	---	---	---	---	7.1	6.9	7.0	7.8	7.7	---
30	---	---	---	---	---	---	7.5	6.8	7.2	7.7	7.7	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.0	7.0	---	---	---	---	---	---	---	8.7	6.6	7.4

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.7	7.1	7.4
2	---	---	---	---	---	---	7.5	7.1	---	7.8	7.0	7.4
3	---	---	---	---	---	---	7.4	7.0	---	8.2	7.4	7.8
4	7.6	7.4	---	---	---	---	7.5	7.4	7.5	7.6	7.3	7.4
5	7.4	7.2	7.2	---	---	---	7.6	7.4	7.5	7.8	7.2	7.5
6	7.4	7.1	7.3	7.7	7.7	---	7.5	7.2	7.4	7.7	7.3	7.5
7	7.4	7.2	7.3	7.8	7.7	7.7	7.6	7.2	7.4	7.7	7.2	7.5
8	7.5	7.1	7.3	7.8	7.7	7.7	7.8	7.3	7.5	7.8	7.3	7.5
9	7.5	7.1	7.3	7.7	7.0	7.4	7.9	7.4	7.6	7.7	7.3	7.5
10	7.6	7.0	7.3	7.4	7.0	7.3	7.9	7.4	7.6	7.4	7.3	---
11	7.6	6.9	7.2	7.4	7.1	7.3	7.7	7.4	7.5	---	---	---
12	7.7	7.2	7.5	7.4	7.0	7.2	7.6	7.3	7.4	---	---	---
13	7.3	7.0	7.2	7.6	7.0	7.3	7.9	7.2	7.6	---	---	---
14	7.5	7.0	7.3	7.4	7.1	---	7.6	7.3	7.5	---	---	---
15	7.6	7.0	7.3	---	---	---	7.5	7.1	7.3	---	---	---
16	7.4	7.0	7.2	---	---	---	---	---	---	---	---	---
17	7.3	6.7	6.9	---	---	---	7.9	7.7	---	7.3	7.1	---
18	7.6	6.7	7.2	---	---	---	7.9	7.6	7.7	7.4	7.2	7.3
19	7.7	7.4	7.6	---	---	---	8.1	7.6	7.8	7.3	7.2	7.3
20	8.1	7.6	7.7	---	---	---	7.8	7.3	7.5	7.4	7.2	7.3
21	8.1	7.6	7.8	---	---	---	7.5	7.2	7.3	7.4	7.3	7.4
22	8.2	7.4	7.9	---	---	---	7.7	7.2	7.4	7.6	7.3	---
23	8.3	8.2	---	---	---	---	7.7	7.3	7.5	---	---	---
24	---	---	---	---	---	---	7.8	7.3	7.5	7.3	7.1	---
25	7.0	6.9	---	---	---	---	7.9	7.4	7.7	7.2	7.0	7.1
26	7.2	6.9	7.1	---	---	---	8.1	7.4	7.8	7.2	6.8	7.1
27	7.3	6.8	7.2	---	---	---	8.1	7.4	7.8	7.6	6.9	---
28	7.3	7.1	---	---	---	---	8.1	7.5	7.7	7.7	7.3	---
29	---	---	---	---	---	---	7.8	7.1	7.5	7.6	7.3	---
30	---	---	---	---	---	---	8.1	7.0	7.5	7.4	7.2	7.3
31	---	---	---	---	---	---	7.9	7.1	7.5	---	---	---
MONTH	8.3	6.7	---	---	---	---	8.1	7.0	7.5	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.0	8.5	---	4.5	4.0	4.0	11.0	9.5	10.5
2	---	---	---	---	---	---	5.5	4.5	5.0	9.5	6.0	7.5
3	---	---	---	---	---	---	6.5	4.5	5.5	5.5	4.0	4.5
4	14.5	13.5	---	---	---	---	6.5	6.0	6.5	5.5	4.5	5.0
5	15.5	14.0	14.5	---	---	---	7.0	6.0	6.5	5.5	5.0	5.5
6	15.0	15.0	---	---	---	---	10.5	8.0	9.0	5.0	2.0	4.0
7	---	---	---	---	---	---	10.0	6.0	8.0	2.0	0.0	0.5
8	---	---	---	---	---	---	5.5	4.5	5.0	0.0	0.0	0.0
9	---	---	---	---	---	---	6.5	5.0	5.5	0.0	0.0	0.0
10	---	---	---	---	---	---	8.5	6.5	7.5	0.0	0.0	0.0
11	---	---	---	---	---	---	8.0	5.5	6.5	0.0	0.0	0.0
12	12.0	11.5	---	---	---	---	5.5	4.0	4.5	0.0	0.0	0.0
13	13.0	11.5	12.0	---	---	---	6.5	4.5	5.5	0.0	0.0	0.0
14	12.0	10.5	11.5	---	---	---	6.5	5.5	6.0	0.0	0.0	0.0
15	13.0	11.0	12.0	---	---	---	5.5	5.0	5.5	1.5	0.0	1.0
16	11.5	10.5	11.0	---	---	---	5.5	1.5	4.0	3.0	1.0	2.0
17	13.0	10.5	12.0	---	---	---	1.0	0.0	0.0	4.0	2.0	3.0
18	12.0	10.5	11.0	5.5	4.5	---	1.0	0.0	0.5	4.5	3.5	4.0
19	10.5	7.0	9.0	5.5	5.0	5.0	4.0	1.5	2.5	6.0	4.0	4.5
20	7.0	6.0	6.5	6.0	5.0	5.5	6.0	4.0	5.0	6.0	4.0	5.0
21	6.5	5.5	---	5.5	4.5	4.5	6.0	6.0	6.0	4.0	2.0	3.0
22	---	---	---	4.0	3.0	3.5	6.0	5.5	5.5	5.5	2.0	3.5
23	---	---	---	3.5	3.0	3.5	6.5	5.5	6.0	6.0	5.5	6.0
24	---	---	---	3.5	2.0	3.0	6.5	6.0	6.0	5.5	4.5	5.0
25	13.0	11.0	---	4.0	2.0	3.5	6.5	6.0	6.0	4.5	3.5	4.0
26	11.0	9.5	10.0	9.0	4.0	7.0	7.0	6.5	7.0	5.0	3.5	4.5
27	9.5	6.5	8.5	8.0	6.5	7.0	7.0	5.0	6.0	5.0	4.5	5.0
28	12.0	4.5	9.5	6.5	5.5	6.0	5.5	4.5	5.0	5.5	4.5	5.0
29	13.5	12.0	13.0	6.5	5.5	6.0	4.5	3.5	4.5	5.5	2.0	4.0
30	13.0	11.0	11.5	5.5	4.0	4.5	6.0	4.5	5.0	1.5	0.0	0.5
31	10.5	9.0	9.5	---	---	---	9.0	5.5	7.0	2.0	0.5	1.0
MONTH	---	---	---	---	---	---	10.5	0.0	5.5	11.0	0.0	3.0

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

TEMPERATURE (C°) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	1.5	5.0	2.0	4.0	12.0	11.5	11.5	16.0	11.5	13.5
2	5.5	2.0	4.0	6.5	3.5	5.0	11.5	10.5	11.0	17.0	15.0	16.0
3	5.0	4.5	5.0	6.5	6.0	6.0	11.0	9.5	10.5	17.0	16.0	16.5
4	6.0	4.5	5.0	8.0	6.0	7.0	10.5	9.0	9.5	15.5	12.0	14.0
5	6.5	5.0	5.5	8.5	7.0	8.0	9.0	8.0	8.5	12.0	10.5	11.0
6	6.0	5.5	6.0	8.0	7.0	7.5	11.0	7.0	9.0	15.0	10.5	12.5
7	6.0	5.0	5.5	8.5	7.0	8.0	13.0	10.0	11.5	16.5	13.0	15.0
8	5.5	5.0	5.0	10.0	8.5	9.0	12.0	9.0	10.5	16.0	14.0	14.5
9	5.5	3.0	4.0	11.0	9.0	10.0	10.5	7.0	9.0	16.0	13.5	14.5
10	2.0	1.0	1.5	11.0	9.0	10.0	10.5	9.5	10.0	19.0	15.0	17.0
11	1.0	0.0	0.5	10.5	9.5	10.0	9.0	6.5	7.5	19.5	18.0	18.5
12	1.0	0.0	0.5	11.5	9.5	10.5	8.0	6.0	7.0	18.0	15.5	16.5
13	1.0	0.0	---	13.0	10.5	11.5	9.5	5.5	7.5	16.0	14.0	15.0
14	---	---	---	12.0	10.5	11.0	11.0	8.0	9.5	16.0	14.0	15.0
15	4.5	4.0	---	11.0	10.0	10.5	12.0	9.0	10.5	15.5	14.0	14.5
16	4.5	1.0	3.5	12.0	10.0	11.0	14.0	10.5	12.0	15.5	11.5	14.0
17	1.0	0.0	---	14.5	12.0	13.0	14.0	13.5	13.5	15.5	13.5	15.0
18	---	---	---	11.5	5.5	8.0	16.0	13.5	14.5	14.5	13.0	13.5
19	---	---	---	5.5	4.5	5.0	17.0	15.0	16.0	14.5	11.0	13.0
20	3.5	2.0	---	8.0	4.5	6.0	16.5	14.5	16.0	14.5	13.5	13.5
21	5.0	3.0	4.0	8.0	6.0	6.5	16.0	14.0	15.0	14.0	13.0	13.5
22	4.0	3.0	3.5	6.5	5.5	6.0	19.0	15.0	17.0	17.0	12.0	14.5
23	4.0	2.0	3.0	8.5	5.0	6.5	20.0	17.0	18.5	16.5	15.0	15.5
24	3.5	1.5	3.0	9.5	6.0	8.0	18.5	16.0	17.5	14.5	14.0	14.5
25	4.0	1.5	3.5	9.5	8.0	8.5	17.0	14.0	15.5	13.5	12.0	13.0
26	5.5	4.0	4.5	9.5	8.5	9.0	13.5	11.0	11.5	13.0	12.0	12.5
27	5.5	4.0	4.5	12.0	11.0	---	11.0	10.5	10.5	13.0	11.5	12.0
28	4.5	2.0	3.5	11.0	5.5	10.0	11.0	10.0	10.5	16.0	11.5	13.5
29	---	---	---	10.5	9.0	10.0	13.0	9.0	11.0	19.0	16.0	17.5
30	---	---	---	10.5	9.5	10.0	13.0	11.0	12.0	19.5	18.5	---
31	---	---	---	11.5	10.0	11.0	---	---	---	20.0	18.5	19.0
MONTH	6.5	0.0	---	14.5	2.0	8.5	20.0	5.5	12.0	20.0	10.5	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	17.0	18.5	---	---	---	---	---	---	26.5	25.0	26.0
2	20.0	18.0	19.0	---	---	---	24.5	23.0	---	27.0	25.0	26.0
3	20.5	18.5	19.5	---	---	---	24.5	23.0	---	28.0	25.0	26.0
4	23.5	19.0	21.0	---	---	---	25.0	23.0	24.0	26.5	24.5	25.5
5	25.0	21.0	23.0	---	---	---	25.5	23.0	24.0	26.5	25.0	26.0
6	25.0	22.0	24.0	25.0	24.0	---	25.0	23.0	24.0	26.0	25.0	25.5
7	24.5	23.0	24.0	25.5	23.0	24.5	25.0	23.0	24.0	25.0	23.5	24.5
8	24.5	21.5	23.0	26.5	23.5	25.0	25.5	23.5	24.5	23.5	21.5	22.5
9	26.0	23.0	24.5	26.0	24.5	25.5	26.5	24.5	25.5	22.0	20.0	21.0
10	27.0	24.5	25.5	26.0	24.0	25.0	27.0	25.0	26.0	20.5	18.5	19.5
11	26.5	24.5	25.5	25.5	22.0	24.0	26.5	25.5	26.0	20.5	17.0	19.0
12	27.0	24.5	26.0	21.5	20.0	21.0	26.0	24.5	25.0	21.0	18.5	20.0
13	26.0	24.5	25.5	22.0	19.5	21.0	25.5	24.0	25.0	20.0	18.5	19.5
14	25.0	23.0	24.0	22.0	21.5	---	24.5	23.5	24.0	19.5	18.5	19.0
15	24.0	21.0	23.0	---	---	---	24.5	23.0	24.0	19.0	18.0	18.5
16	23.5	21.0	22.0	---	---	---	---	---	---	---	---	---
17	21.5	20.5	21.0	---	---	---	24.0	23.5	---	19.5	18.5	---
18	20.5	19.0	19.5	---	---	---	23.5	22.0	23.0	19.5	18.5	19.0
19	19.0	18.5	18.5	---	---	---	24.0	21.0	22.5	18.5	17.0	18.0
20	21.5	19.0	20.0	23.0	22.0	---	23.5	22.0	22.5	18.0	16.0	17.0
21	23.5	20.5	22.0	---	---	---	21.5	20.5	21.0	16.5	15.5	16.0
22	23.0	21.0	21.5	---	---	---	21.0	20.0	20.5	16.5	15.0	---
23	21.0	20.5	---	---	---	---	21.0	19.0	20.0	---	---	---
24	---	---	---	---	---	---	21.0	19.0	20.0	20.0	19.5	---
25	21.5	21.0	---	---	---	---	23.0	20.0	21.5	19.5	18.0	19.0
26	23.5	21.0	22.0	---	---	---	23.5	21.0	22.5	18.5	16.5	17.5
27	24.5	22.0	23.0	---	---	---	25.0	23.0	24.0	19.0	16.5	18.0
28	24.0	21.5	---	---	---	---	26.5	24.0	25.5	19.5	18.0	---
29	---	---	---	---	---	---	27.0	24.5	26.0	20.0	18.5	19.5
30	---	---	---	---	---	---	28.0	25.0	26.5	19.5	17.0	19.0
31	---	---	---	---	---	---	28.0	25.5	26.5	---	---	---
MONTH	27.0	17.0	22.5	---	---	---	28.0	19.0	24.0	28.0	15.0	21.0

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, at gaging station on right bank 0.2 mile (0.3 km) downstream from Henry Clay Bridge, in Wilmington, and 4.2 miles (6.8 km) upstream from mouth. Sediment samples are collected at the Henry Clay Bridge.

DRAINAGE AREA.--314 mi^2 (813 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1950, November 1951 to September 1952, October 1956 to September 1972 (discontinued).
Water temperatures: November 1956 to September 1961, October 1970 to September 1973.
Sediment records: December 1946 to September 1961, July 1962 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum daily, 29.0°C Sept. 3, 6; minimum daily, freezing point on several days during January.

Period of record:
Water temperatures (1970-73): Maximum daily, 29.0°C Sept. 3, 6, 1973; minimum daily, freezing point on many days during winter period.

REMARKS.--Sediment data for this station on page 351. Streamflow records for water year 1973 available in the Maryland and Delaware State Annual Report, Part 1. Unpublished chemical-quality data and specific conductance, pH, and temperature of sediment samples available in the district office at Parkville, Md.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE DAILY MEASUREMENT AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	9.0	4.5	7.0	2.0	5.0	9.5	13.0	19.0	23.0	24.0	27.0
2	16.0	11.0	7.0	7.0	7.0	7.0	11.0	7.0	19.0	22.0	23.0	27.0
3	16.0	13.0	6.0	5.0	6.5	7.0	11.0	17.0	18.0	22.0	23.0	29.0
4	19.0	12.0	7.0	5.0	5.5	8.0	10.0	16.0	20.0	23.0	23.0	26.0
5	17.0	9.0	6.0	2.0	6.5	7.0	9.5	11.0	22.0	23.0	23.0	26.0
6	18.0	10.0	8.0	1.0	6.0	5.0	9.0	10.0	22.0	21.5	24.0	29.0
7	17.0	10.0	7.5	0.0	5.5	8.0	9.0	14.0	22.0	29.0	23.0	24.0
8	13.0	12.0	8.0	0.0	6.0	8.0	9.5	15.0	23.0	29.0	25.0	23.0
9	14.0	11.0	6.0	0.0	2.0	7.0	8.0	15.0	24.0	28.0	25.0	23.0
10	12.0	10.0	6.5	0.0	0.0	7.0	8.0	16.0	23.0	27.0	23.0	23.0
11	11.0	9.0	6.0	0.0	0.0	10.0	9.0	9.0	23.0	25.0	20.0	20.0
12	12.0	9.0	5.0	1.0	0.0	5.0	8.0	17.0	25.0	20.0	20.0	21.0
13	12.0	11.0	6.0	1.0	1.0	10.0	6.0	11.0	25.0	22.0	20.0	19.0
14	11.0	10.5	6.0	0.0	2.0	8.0	6.0	15.0	22.0	23.0	25.0	20.0
15	12.0	7.0	5.0	0.0	5.5	8.0	10.0	15.0	21.0	23.0	24.0	19.0
16	12.0	7.5	3.0	1.0	3.0	10.0	12.0	14.0	22.0	22.0	23.0	24.5
17	12.0	8.0	2.0	3.0	0.0	13.0	12.0	17.0	20.0	22.0	23.0	24.5
18	11.0	5.0	0.0	4.0	0.0	5.0	15.0	12.0	15.0	21.0	23.0	20.0
19	8.0	5.0	2.0	4.0	0.0	5.0	---	14.0	15.0	20.0	23.0	23.5
20	7.0	6.5	5.0	5.0	3.0	5.0	16.0	14.0	20.0	24.0	23.0	18.5
21	7.0	5.5	6.0	4.0	4.0	5.0	12.0	14.0	21.0	25.0	23.0	16.5
22	8.0	3.0	7.0	4.0	4.0	5.0	12.0	14.0	21.0	22.0	21.0	16.0
23	8.0	6.0	6.0	6.5	4.0	5.0	20.0	14.0	20.0	23.0	21.0	18.5
24	10.0	4.0	5.0	5.0	4.0	5.0	17.0	15.0	25.0	23.0	23.0	18.5
25	12.0	7.0	5.0	2.0	3.0	---	7.0	12.0	20.0	23.0	22.0	19.5
26	9.0	8.0	6.0	5.0	3.0	10.0	---	13.0	21.0	24.0	23.0	18.5
27	8.0	8.0	6.0	5.0	4.0	10.0	11.0	13.0	25.0	24.0	23.0	19.0
28	12.0	8.0	5.0	5.5	4.0	8.0	10.5	13.5	23.0	25.0	26.0	20.0
29	13.5	5.0	---	3.5	---	10.0	11.0	15.5	21.5	24.0	27.0	20.0
30	12.0	4.0	5.0	0.0	---	10.0	11.0	18.0	23.0	21.0	27.0	19.5
31	14.0	---	7.0	1.0	---	10.0	---	17.5	---	25.0	28.0	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.

LOCATION.--Lat 39°41'18", long 75°31'06", New Castle County, at center of the navigational channel at bridge between Pigeon Point, Del., and Deepwater Point, N.J. Water-quality recorder (39°41'21", 75°31'19") at tidal-gaging station located on channel side of west tower of south bridge.

DRAINAGE AREA.--11,030 mi^2 (28,600 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1955 to September 1973.
Water temperatures: October 1956 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 9,200 micromhos Oct. 6; minimum, 125 micromhos July 6.
Dissolved oxygen: Maximum, 12.0 mg/l Dec. 18; minimum, 0.0 mg/l July 1.
Water temperatures: Maximum, 29.0°C Aug. 10-12; Sept. 2, 4, 5; minimum, 1.0°C Feb. 18, 20, 21.

Period of record:
Specific conductance (1963-73): Maximum, 12,700 micromhos Nov. 13, 1966; minimum, 100 micromhos on many days.
Dissolved oxygen (1962-73): Maximum, 13.5 mg/l Dec. 29, 1969; minimum, 0.0 mg/l on many days during summer periods.
pH (1968-73): Maximum, 9.3 Nov. 10-11, 13, 1970; minimum, 4.2 Nov. 6, 1969.
Water temperatures: Maximum, 31.0°C Aug. 9, 1968; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8680	3480	5960	---	---	---	---	---	---	283	233	247
2	8620	4000	6160	---	---	---	---	---	---	245	219	231
3	9140	4100	6190	---	---	---	---	---	---	233	199	224
4	8340	4200	5970	---	---	---	260	200	---	235	219	227
5	8800	4140	6350	---	---	---	280	200	229	233	218	227
6	9200	4560	6840	7920	3440	---	280	220	231	236	215	224
7	8620	3680	6050	7880	3180	5320	260	200	218	224	209	219
8	7580	2880	5040	8960	3860	---	240	200	218	249	218	224
9	7220	2480	4660	---	---	---	220	200	210	255	209	231
10	6940	2540	4420	---	---	---	220	200	203	244	204	223
11	7240	3040	4840	---	---	---	220	200	201	254	204	226
12	6800	2780	4830	---	---	---	200	180	198	247	199	219
13	6900	2860	4620	---	---	---	200	180	194	301	203	232
14	7720	3420	5230	---	---	---	200	180	189	407	199	256
15	6000	2160	4280	---	---	---	240	180	193	445	199	260
16	7260	2880	5050	---	---	---	200	180	186	613	217	288
17	6380	2020	4440	---	---	---	200	180	183	626	219	296
18	5980	2780	4450	---	---	---	240	180	207	779	229	338
19	5820	2840	4320	---	---	---	270	209	224	998	235	421
20	6740	2700	4570	---	---	---	336	219	244	649	248	340
21	6660	2720	---	---	---	---	376	225	262	560	250	310
22	6900	2620	4650	---	---	---	384	210	271	998	261	523
23	8020	2760	5110	---	---	---	289	226	243	672	270	401
24	8280	2880	5370	---	---	---	255	230	239	420	276	309
25	---	---	---	---	---	---	259	234	245	311	278	290
26	---	---	---	---	---	---	257	238	248	332	283	300
27	---	---	---	---	---	---	252	227	244	346	290	303
28	---	---	---	---	---	---	255	235	241	326	290	302
29	---	---	---	---	---	---	268	233	242	306	270	290
30	---	---	---	---	---	---	281	235	246	303	262	275
31	---	---	---				277	234	249	291	253	268
MONTH	---	---	---	---	---	---	384	180	224	998	199	281

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	318	249	271	977	307	---	1230	220	484	---	---	---
2	407	251	286	884	370	---	635	210	332	---	---	---
3	268	209	228	983	496	---	310	218	230	---	---	---
4	226	207	217	996	707	---	255	210	221	385	280	---
5	222	193	208	977	753	---	235	195	210	470	280	324
6	212	188	200	---	---	---	210	190	196	690	280	364
7	210	196	201	---	---	---	200	180	190	635	285	392
8	205	199	202	---	---	---	195	160	183	765	295	454
9	203	188	198	---	---	---	190	160	176	740	295	424
10	202	194	197	---	---	---	185	160	168	470	290	356
11	205	196	200	---	---	---	165	150	159	480	290	348
12	355	199	230	540	305	---	165	150	157	395	290	324
13	717	201	271	655	305	482	165	150	159	345	295	306
14	519	200	268	1080	310	540	165	155	161	315	285	295
15	966	209	363	1070	305	540	180	160	164	315	280	289
16	400	205	239	1100	310	589	175	150	167	315	280	290
17	433	212	265	1200	585	873	180	170	175	335	275	290
18	808	224	428	785	425	528	190	175	181	305	260	278
19	709	268	406	520	275	394	195	180	187	300	255	278
20	871	248	384	400	275	321	200	185	191	305	245	273
21	931	251	491	515	275	350	205	190	197	285	215	253
22	998	250	422	445	260	328	210	195	200	260	205	237
23	763	257	397	405	255	306	255	200	219	255	200	227
24	906	260	384	515	255	329	265	235	244	250	205	223
25	615	259	346	805	240	327	270	240	248	230	200	216
26	799	270	378	670	230	334	265	240	---	230	200	213
27	917	277	521	470	230	297	---	---	---	235	190	208
28	969	293	---	650	230	353	---	---	---	225	185	204
29	---	---	---	640	220	319	---	---	---	200	185	194
30	---	---	---	660	215	343	---	---	---	210	175	193
31	---	---	---	1310	215	430	---	---	---	210	190	197
MONTH	998	188	304	1310	215	---	1230	150	208	765	175	283

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	225	195	202	255	195	226	1700	440	1010	2540	970	1830
2	260	200	212	230	155	194	1860	305	940	2540	1020	1840
3	290	200	218	220	150	177	1050	270	591	2550	1100	1880
4	255	210	224	185	135	160	725	275	462	2460	1140	1870
5	265	200	225	170	130	149	640	275	411	2580	1180	1940
6	260	215	232	155	125	142	680	290	427	2540	1240	1930
7	265	205	232	155	140	144	840	295	452	2460	1150	1850
8	255	225	234	160	145	148	920	300	476	2540	1180	1860
9	250	205	232	195	145	155	955	300	484	2720	1260	1920
10	250	230	238	215	150	163	1030	310	508	3390	1240	2290
11	265	235	244	210	160	171	1000	330	561	3400	1570	2530
12	280	240	251	190	155	172	945	320	569	3370	1570	2540
13	275	245	254	190	170	---	1110	330	594	3510	1500	2690
14	310	250	261	---	---	---	1290	370	714	3820	1910	2940
15	350	250	271	---	---	---	1500	405	822	3950	1490	2660
16	430	255	301	---	---	---	1430	405	882	3560	1310	2490
17	355	260	292	---	---	---	1560	430	937	3710	1270	2460
18	445	255	318	---	---	---	1770	390	944	3590	1220	2520
19	370	270	322	860	210	---	1710	425	1000	3530	1250	2380
20	480	270	333	935	205	484	1880	480	1120	3350	1010	2400
21	620	275	369	875	225	499	1990	530	1220	3600	1210	2380
22	610	255	354	885	245	505	2050	460	1210	3700	1390	2470
23	555	275	355	920	235	481	2110	510	1210	3310	1150	2300
24	595	275	377	1360	240	505	2220	495	1180	3510	1180	2300
25	665	255	367	1230	250	570	2340	540	1280	3420	1460	2590
26	890	255	385	1210	275	632	2320	535	1370	3670	1470	2520
27	1090	255	416	1260	280	661	2670	570	1420	3630	1350	2430
28	1080	265	476	1460	320	684	2330	640	1550	3490	1300	2390
29	885	250	403	1360	335	735	2440	705	1640	3640	1510	2550
30	420	245	261	1500	360	818	2480	790	1740	3600	1560	2530
31	---	---	---	1650	390	892	2580	905	1780	---	---	---
MONTH	1090	195	295	1650	125	---	2670	270	951	3950	970	2310

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.2	2.1	3.7	---	---	---	---	---	---	9.5	8.9	9.3
2	5.0	2.6	3.8	---	---	---	---	---	---	9.2	8.7	8.9
3	5.1	2.2	3.6	---	---	---	---	---	---	9.1	8.6	8.8
4	5.0	1.9	3.4	---	---	---	11.4	9.9	---	9.3	8.6	8.8
5	5.2	2.1	3.9	---	---	---	11.4	9.7	10.8	9.7	8.6	9.1
6	5.6	3.1	4.5	4.7	1.2	---	10.7	9.2	10.2	10.0	9.0	9.7
7	5.5	3.3	4.5	3.6	1.0	2.3	10.5	9.2	9.8	10.3	9.8	10.1
8	6.0	2.7	4.7	3.7	1.6	2.5	10.4	8.8	9.7	10.3	9.9	---
9	5.7	2.5	4.3	3.9	2.3	3.1	10.6	9.9	10.2	---	---	---
10	5.5	2.2	4.0	4.0	3.0	3.6	11.1	9.2	10.0	---	---	---
11	5.6	2.4	4.1	4.3	3.0	3.4	9.5	8.3	8.9	---	---	---
12	5.3	1.9	3.8	4.8	2.8	3.7	9.6	8.6	9.0	---	---	---
13	4.9	1.5	3.3	4.5	3.3	3.9	10.0	8.8	9.2	---	---	---
14	5.4	1.9	3.6	5.0	3.7	4.4	9.8	8.0	9.3	---	---	---
15	5.1	1.3	3.2	5.7	4.9	5.3	9.6	9.1	9.4	9.7	9.2	---
16	5.7	2.1	4.1	5.9	5.6	5.7	10.5	9.5	10.0	10.0	8.9	9.4
17	5.3	2.7	4.0	6.4	5.7	6.0	10.9	10.2	10.6	9.7	8.5	9.1
18	4.9	2.8	4.0	6.6	6.1	6.3	12.0	10.4	11.2	9.6	8.4	8.9
19	4.7	2.8	3.9	6.5	6.0	6.3	11.8	10.3	11.1	9.5	8.2	8.8
20	4.7	2.7	4.0	6.6	6.1	6.3	11.7	10.1	10.9	9.2	7.9	8.6
21	4.5	2.5	---	8.1	6.6	7.6	11.3	10.0	10.7	9.5	8.0	8.7
22	4.2	1.7	3.1	8.2	7.9	8.1	11.2	9.8	10.6	11.0	8.3	9.5
23	3.6	1.5	2.6	8.4	8.0	8.2	10.7	9.6	10.1	10.0	8.2	9.1
24	3.1	1.0	2.1	8.6	8.3	8.4	10.1	9.4	9.7	9.2	8.2	8.7
25	---	---	---	8.6	8.3	8.4	9.5	9.1	9.3	8.8	8.0	8.5
26	---	---	---	8.6	8.0	8.4	9.5	9.0	9.1	8.7	7.8	8.2
27	---	---	---	8.6	8.5	---	10.1	9.0	9.3	8.4	7.7	8.0
28	---	---	---	---	---	---	10.1	9.3	9.6	8.2	7.8	8.0
29	---	---	---	---	---	---	10.1	9.6	9.7	9.0	7.9	8.3
30	---	---	---	---	---	---	9.8	9.4	9.6	9.3	8.8	9.0
31	---	---	---	---	---	---	9.6	9.3	9.5	9.2	8.8	9.1
MONTH	---	---	---	---	---	---	12.0	8.0	9.9	11.0	7.7	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	9.1	9.3	10.1	8.3	9.2	---	---	---	---	---	---
2	9.9	9.4	9.6	9.5	8.0	8.8	---	---	---	---	---	---
3	10.3	9.7	10.0	9.2	7.7	8.5	---	---	---	---	---	---
4	10.4	9.9	10.2	9.3	7.6	8.4	---	---	---	5.1	3.5	---
5	10.7	9.8	10.2	8.7	7.1	7.9	---	---	---	5.7	3.6	4.8
6	11.1	9.9	10.4	8.7	7.4	8.1	---	---	---	6.1	3.8	4.9
7	11.2	10.4	10.8	8.9	7.2	8.2	---	---	---	5.7	3.6	4.8
8	10.8	10.5	10.6	8.6	6.3	7.5	---	---	---	5.7	4.1	4.9
9	10.9	10.5	10.7	7.7	5.7	6.8	---	---	---	6.1	3.7	5.0
10	11.1	10.4	10.8	7.5	5.8	6.7	---	---	---	4.9	3.1	4.3
11	11.4	10.6	11.1	7.3	5.2	6.5	9.1	8.4	---	4.9	3.1	4.1
12	11.6	10.7	11.2	7.4	5.4	6.5	9.8	9.2	9.4	4.5	3.0	3.9
13	11.3	10.1	10.7	7.5	5.8	6.6	9.7	9.1	9.4	4.3	2.6	3.5
14	10.7	9.8	10.3	6.9	5.5	6.2	9.7	8.8	9.3	3.8	2.1	3.0
15	10.7	9.7	10.2	6.7	5.2	6.0	9.8	9.0	9.3	3.5	1.8	2.6
16	10.6	9.5	10.0	6.7	4.9	5.8	9.6	8.6	9.1	3.6	1.7	2.6
17	11.2	9.8	10.6	7.5	5.0	6.3	9.5	8.6	9.0	3.8	2.2	3.1
18	11.6	9.9	10.7	8.2	6.4	---	9.1	8.1	8.6	4.3	3.0	3.7
19	10.8	9.4	10.3	---	---	---	8.6	7.6	8.1	4.6	3.4	3.9
20	10.4	9.4	9.9	---	---	---	8.2	7.4	7.9	4.6	3.4	3.9
21	10.2	9.1	9.7	8.6	7.7	---	8.4	7.3	7.8	4.4	3.1	3.8
22	10.1	9.0	9.6	8.8	7.7	8.4	8.0	6.8	7.4	4.6	3.4	4.1
23	10.4	8.9	9.8	9.2	7.9	8.5	7.6	6.6	7.1	4.6	3.6	4.1
24	10.4	8.6	9.5	9.2	7.5	---	7.5	6.3	6.9	4.9	4.0	4.4
25	10.0	8.5	9.2	---	---	---	7.1	6.0	6.7	5.5	4.6	5.2
26	9.9	8.3	9.0	---	---	---	7.5	6.3	---	5.6	5.2	5.4
27	10.2	8.6	9.6	---	---	---	---	---	---	5.6	5.1	5.3
28	10.6	8.9	9.7	---	---	---	---	---	---	5.5	4.9	5.3
29	---	---	---	---	---	---	---	---	---	5.5	4.5	5.1
30	---	---	---	---	---	---	---	---	---	5.2	4.3	4.7
31	---	---	---	---	---	---	---	---	---	4.9	4.2	4.5
MONTH	11.6	8.3	10.1	---	---	---	---	---	---	6.1	1.7	4.3

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.6	4.0	4.4	1.9	0.0	1.2	2.9	1.7	2.5	2.6	1.4	2.0
2	4.7	4.1	4.2	2.7	1.0	1.9	3.1	1.3	2.5	2.3	1.2	1.8
3	4.3	3.8	4.1	3.0	1.9	2.4	2.8	0.7	2.0	2.4	1.3	1.7
4	4.0	3.5	3.8	2.8	2.4	2.6	2.7	0.8	1.7	2.5	1.3	1.8
5	4.0	3.3	3.7	2.7	2.0	2.4	2.8	1.0	1.7	2.8	1.4	2.0
6	4.0	2.9	3.5	2.4	2.1	2.3	4.1	1.2	2.6	2.9	1.7	2.3
7	4.1	2.7	3.5	2.8	2.1	2.5	4.9	2.0	3.4	3.0	1.8	2.3
8	3.9	2.5	3.1	2.6	1.9	2.2	5.3	2.6	4.0	3.1	1.9	2.4
9	4.0	2.1	3.0	2.6	1.8	2.4	4.4	2.9	3.9	2.9	1.9	2.5
10	3.8	1.8	2.7	2.2	1.4	1.9	4.1	2.7	3.7	2.6	1.9	---
11	3.4	1.6	2.5	2.3	1.5	1.9	3.7	2.6	3.3	5.4	3.0	---
12	3.5	1.5	2.5	3.0	1.9	2.4	3.3	1.9	2.7	6.0	2.9	4.7
13	3.4	1.6	2.3	2.8	2.2	---	3.0	1.5	2.5	6.9	3.6	5.3
14	3.8	1.4	2.3	---	---	---	2.9	1.8	2.2	6.9	3.7	5.5
15	4.6	1.5	2.5	---	---	---	2.6	1.6	2.1	8.0	4.4	6.0
16	4.4	1.8	2.6	---	---	---	2.7	1.7	2.2	7.0	3.0	5.3
17	3.3	1.6	2.5	---	---	---	2.7	1.8	2.4	7.6	2.8	5.2
18	4.0	2.1	2.8	---	---	---	2.6	2.0	2.3	7.0	2.5	5.0
19	3.3	2.1	2.7	1.9	1.0	---	2.6	1.8	2.1	7.5	2.5	4.8
20	3.4	2.0	2.5	2.0	1.0	1.4	3.4	1.8	2.5	7.0	2.3	4.7
21	3.0	1.6	2.1	2.6	1.2	1.7	4.0	2.4	3.0	6.8	2.0	4.6
22	2.4	1.1	1.7	2.4	1.1	1.8	4.4	2.4	3.3	7.2	2.4	4.7
23	2.2	1.0	1.4	2.6	1.0	1.7	4.6	2.5	3.4	6.3	2.7	4.6
24	2.2	1.0	1.4	2.4	1.1	1.6	4.6	2.0	3.1	6.4	2.2	4.2
25	2.2	1.0	1.4	3.0	1.1	1.9	4.6	1.9	3.0	6.8	3.0	5.1
26	2.7	1.0	1.4	3.2	1.5	2.3	4.3	2.0	3.1	6.9	3.0	4.9
27	2.7	1.0	1.4	3.3	2.0	2.7	3.6	1.8	2.4	6.2	2.1	4.3
28	3.5	1.0	1.8	3.2	1.8	2.5	2.9	1.8	2.3	5.8	1.7	3.6
29	2.6	2.0	2.3	3.1	1.6	2.5	3.0	1.9	2.4	4.7	1.2	2.9
30	2.1	1.3	1.7	3.2	1.4	2.5	2.6	1.7	2.1	5.6	1.4	3.2
31	---	---	---	3.1	1.5	2.4	2.6	1.5	2.1	---	---	---
MONTH	4.7	1.0	2.6	3.3	0.0	---	5.3	0.7	2.7	8.0	1.2	3.8

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	6.7	6.6	---
2	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
3	---	---	---	---	---	---	---	---	---	6.7	6.6	6.7
4	---	---	---	---	---	---	---	---	---	6.9	6.6	6.7
5	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
6	---	---	---	---	---	---	---	---	---	6.8	6.6	6.7
7	---	---	---	---	---	---	---	---	---	6.9	6.6	6.8
8	---	---	---	---	---	---	---	---	---	6.9	6.5	6.7
9	---	---	---	---	---	---	---	---	---	6.8	6.5	6.7
10	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
11	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
12	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
13	---	---	---	---	---	---	---	---	---	6.5	6.4	6.5
14	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
15	---	---	---	---	---	---	---	---	---	6.5	6.2	6.4
16	---	---	---	---	---	---	---	---	---	6.4	6.3	6.4
17	---	---	---	---	---	---	---	---	---	6.4	6.3	6.3
18	---	---	---	---	---	---	---	---	---	6.3	6.2	6.3
19	---	---	---	---	---	---	---	---	---	6.5	6.2	---
20	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
21	---	---	---	---	---	---	---	---	---	6.4	6.2	6.3
22	---	---	---	---	---	---	---	---	---	6.5	6.2	---
23	---	---	---	---	---	---	---	---	---	6.6	6.3	---
24	---	---	---	---	---	---	---	---	---	6.3	6.2	6.3
25	---	---	---	---	---	---	---	---	---	6.3	6.2	6.3
26	---	---	---	---	---	---	7.2	6.8	---	6.3	6.2	6.3
27	---	---	---	---	---	---	6.8	6.6	6.7	6.7	6.2	6.5
28	---	---	---	---	---	---	6.8	6.6	6.7	6.6	6.3	6.5
29	---	---	---	---	---	---	6.8	6.6	6.7	6.7	6.3	6.5
30	---	---	---	---	---	---	7.4	6.6	7.0	6.6	6.4	6.6
31	---	---	---	---	---	---	7.2	7.1	---	6.6	6.5	6.6
MONTH	---	---	---	---	---	---	---	---	---	6.9	6.2	6.5

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.5	6.6	6.5	6.3	6.4	6.5	6.3	6.4	---	---	---
2	7.0	5.3	6.4	6.5	6.3	6.4	6.5	6.3	---	---	---	---
3	7.0	6.4	6.7	6.5	6.3	6.5	---	---	---	---	---	---
4	6.6	6.4	6.5	6.5	6.4	6.5	---	---	---	6.7	6.6	---
5	6.5	6.4	---	6.6	6.3	6.5	---	---	---	6.7	6.6	6.7
6	---	---	---	7.1	6.4	6.7	---	---	---	6.8	6.6	6.7
7	---	---	---	6.8	6.6	6.7	---	---	---	6.7	6.6	6.7
8	---	---	---	6.8	6.5	6.7	---	---	---	6.7	6.6	6.7
9	---	---	---	6.6	6.4	6.5	6.6	6.5	---	6.8	6.6	6.7
10	---	---	---	7.2	6.4	6.6	6.6	6.5	6.6	6.7	6.6	6.7
11	---	---	---	7.8	7.1	7.6	6.6	6.5	6.6	6.7	6.6	6.7
12	---	---	---	8.1	6.5	7.2	6.6	6.3	6.5	6.7	6.7	6.7
13	---	---	---	6.5	6.4	6.5	6.6	6.4	6.5	6.7	6.7	6.7
14	---	---	---	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.4	6.6
15	---	---	---	7.1	6.5	6.8	6.5	6.4	6.5	6.5	6.4	6.5
16	---	---	---	6.8	6.7	6.7	6.5	6.4	6.5	6.5	6.3	6.4
17	---	---	---	---	---	---	6.5	6.4	6.5	6.5	6.3	6.4
18	---	---	---	---	---	---	6.5	6.5	6.5	6.5	6.3	6.4
19	---	---	---	---	---	---	6.5	6.4	6.5	6.5	6.4	6.4
20	6.5	6.4	---	6.8	6.7	---	6.5	6.3	6.4	6.5	6.4	6.4
21	6.4	6.4	6.4	6.9	6.6	6.8	6.4	6.3	6.4	6.4	6.3	6.4
22	6.4	6.4	6.4	6.8	6.6	6.8	6.4	6.3	6.4	6.5	6.3	6.4
23	6.5	6.4	6.4	6.8	6.6	6.7	6.4	6.3	---	6.5	6.4	6.5
24	6.4	6.4	6.4	6.8	6.6	6.7	---	---	---	6.5	6.3	6.4
25	6.4	6.4	6.4	6.7	6.5	6.6	---	---	---	6.5	6.2	6.4
26	6.5	6.3	6.4	6.7	6.4	6.6	---	---	---	6.4	6.3	6.4
27	6.5	6.3	6.5	6.6	6.5	6.6	---	---	---	6.4	6.3	6.4
28	6.5	6.2	6.4	6.6	6.3	6.6	---	---	---	7.1	6.3	6.9
29	---	---	---	6.6	6.5	6.6	---	---	---	7.1	6.3	6.7
30	---	---	---	6.6	6.4	6.5	---	---	---	6.7	6.3	6.4
31	---	---	---	6.5	6.4	6.5	---	---	---	6.8	6.3	6.5
MONTH	---	---	---	8.1	6.3	6.7	---	---	---	7.1	6.2	6.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.3	6.4	6.6	6.5	6.6	---	---	---	---	---	---
2	6.7	6.4	6.5	6.6	6.5	---	---	---	---	---	---	---
3	6.7	6.4	6.5	---	---	---	---	---	---	---	---	---
4	6.8	6.4	6.6	---	---	---	---	---	---	---	---	---
5	6.5	6.3	6.5	---	---	---	---	---	---	---	---	---
6	6.4	6.3	6.4	---	---	---	---	---	---	---	---	---
7	6.4	6.3	6.4	---	---	---	---	---	---	---	---	---
8	6.4	6.3	6.4	---	---	---	---	---	---	---	---	---
9	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
10	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
11	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
12	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
13	6.4	6.3	6.4	---	---	---	---	---	---	---	---	---
14	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
15	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
16	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
17	6.5	6.4	6.5	---	---	---	---	---	---	---	---	---
18	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
19	6.5	6.4	6.5	6.4	6.3	---	---	---	---	---	---	---
20	6.5	6.4	6.4	6.5	6.3	6.4	---	---	---	---	---	---
21	6.5	6.4	6.4	6.5	6.4	6.4	---	---	---	---	---	---
22	6.5	6.3	6.4	6.5	6.4	6.5	---	---	---	---	---	---
23	6.5	6.3	6.4	6.5	6.3	6.4	---	---	---	---	---	---
24	6.5	6.4	6.4	6.5	6.4	---	---	---	---	---	---	---
25	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
26	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
27	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
28	6.6	6.3	6.4	---	---	---	---	---	---	---	---	---
29	6.5	6.4	6.4	---	---	---	---	---	---	---	---	---
30	6.6	6.4	6.6	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	6.8	6.3	6.4	---	---	---	---	---	---	---	---	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.0	---	---	---	6.0	6.0	6.0	6.0	5.0	5.5
2	20.0	19.5	19.5	---	---	---	6.0	5.5	6.0	6.0	5.5	5.5
3	20.0	19.5	19.5	---	---	---	6.0	5.5	6.0	6.0	5.5	5.5
4	20.0	19.5	19.5	---	---	---	6.0	6.0	6.0	6.0	5.5	6.0
5	20.0	19.0	19.5	---	---	---	6.5	6.0	6.0	6.0	5.5	6.0
6	19.5	19.0	19.5	13.0	12.0	---	7.0	6.0	6.5	6.0	5.5	5.5
7	19.5	19.0	19.0	13.5	12.0	12.5	6.5	6.0	6.5	5.5	5.0	5.0
8	19.0	18.5	18.5	13.5	12.0	13.0	6.5	6.0	6.0	5.0	4.5	---
9	18.5	18.0	18.5	13.5	13.0	13.0	7.0	6.0	6.5	---	---	---
10	18.0	17.0	17.5	13.5	13.0	13.0	7.0	6.5	6.5	---	---	---
11	18.0	16.5	17.0	13.0	12.0	13.0	6.5	6.5	6.5	---	---	---
12	17.0	16.5	17.0	13.0	11.5	12.5	6.5	6.0	6.0	---	---	---
13	17.0	16.5	16.5	12.0	11.5	12.0	6.5	6.0	6.0	---	---	---
14	17.0	16.0	16.5	12.0	11.0	11.5	6.5	6.0	6.0	---	---	---
15	17.0	16.0	16.5	11.0	10.0	10.5	6.0	6.0	6.0	3.0	2.0	---
16	16.5	15.0	15.5	10.0	9.5	10.0	6.0	5.0	5.5	3.0	2.0	2.5
17	16.0	15.5	15.5	9.5	9.0	9.0	5.5	4.0	4.5	3.0	2.0	2.5
18	16.0	15.0	15.0	9.0	8.5	8.5	4.5	3.0	4.0	3.5	2.0	2.5
19	15.5	14.0	14.5	8.5	8.5	8.5	4.0	3.0	3.5	3.5	2.0	3.0
20	14.5	13.0	14.0	8.5	8.0	8.0	4.5	3.5	4.0	3.5	3.0	3.0
21	14.0	13.0	---	8.5	7.0	7.5	4.5	3.5	4.0	3.5	3.0	3.0
22	14.0	13.0	13.5	8.0	7.0	7.0	4.5	4.0	4.0	3.5	2.0	3.0
23	14.0	13.0	13.5	7.0	6.5	6.5	5.0	4.0	4.5	4.0	3.0	3.5
24	14.0	13.0	13.5	6.5	6.0	6.5	5.0	4.5	4.5	4.0	3.5	4.0
25	---	---	---	6.5	6.0	6.0	5.0	4.5	4.5	4.5	3.5	4.0
26	---	---	---	6.5	6.0	6.5	5.0	4.5	4.5	4.5	4.0	4.0
27	---	---	---	6.5	6.0	6.5	5.0	4.5	4.5	5.0	4.0	4.5
28	---	---	---	6.5	6.0	6.5	5.0	4.5	4.5	5.0	4.0	4.5
29	---	---	---	6.5	6.0	6.0	4.5	4.5	4.5	5.5	4.5	5.0
30	---	---	---	6.5	6.0	6.0	5.0	4.5	4.5	5.5	4.0	5.0
31	---	---	---	---	---	---	5.5	4.5	5.0	5.0	4.5	4.5
MONTH	---	---	---	13.5	6.0	9.0	7.0	3.0	5.5	6.0	2.0	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.5	4.0	4.5	5.0	3.0	4.0	10.0	9.5	10.0	---	---	---
2	5.0	4.0	4.5	5.5	4.0	4.5	10.0	10.0	---	---	---	---
3	5.0	4.5	5.0	5.5	4.5	5.0	---	---	---	---	---	---
4	5.0	4.5	5.0	6.5	5.0	5.5	---	---	---	16.0	15.0	---
5	5.0	4.5	5.0	7.0	5.5	6.0	---	---	---	15.5	15.0	15.0
6	5.0	4.5	5.0	8.0	6.0	6.5	---	---	---	16.0	14.5	15.5
7	5.0	4.5	5.0	8.5	6.5	7.0	---	---	---	16.0	15.0	15.5
8	5.0	4.5	4.5	9.0	6.5	8.0	---	---	---	16.0	15.5	15.5
9	5.0	4.5	5.0	10.0	8.0	9.0	11.0	10.0	---	16.5	15.5	16.0
10	4.5	4.0	4.5	10.5	8.5	9.5	10.5	9.5	10.0	17.0	16.0	16.5
11	4.0	3.5	3.5	11.0	9.5	10.0	10.0	9.0	9.5	18.0	17.0	17.5
12	3.5	3.0	3.0	11.0	7.0	9.0	9.0	9.0	9.0	18.0	17.0	17.5
13	3.5	2.0	3.0	9.0	7.0	8.0	9.0	8.5	9.0	18.0	17.0	17.5
14	3.5	3.0	3.0	9.5	8.0	8.5	9.5	8.5	9.0	18.0	17.0	18.0
15	4.0	3.0	3.5	9.5	8.5	9.0	10.0	9.0	9.0	18.0	17.0	17.5
16	4.0	3.0	3.5	10.0	9.0	9.0	10.0	9.5	9.5	18.0	17.0	17.0
17	3.5	1.5	2.5	10.5	9.5	9.5	10.5	10.0	10.5	18.0	17.0	17.5
18	3.0	1.0	2.0	10.5	9.5	10.0	11.5	10.5	11.0	18.0	16.5	17.0
19	3.0	1.5	2.0	9.5	9.0	---	12.0	11.0	11.5	18.0	16.5	17.0
20	3.0	1.0	2.0	9.5	8.5	---	13.0	11.5	12.0	18.0	17.0	17.0
21	3.0	1.0	2.0	9.0	8.0	8.5	13.5	12.0	12.5	17.0	16.5	17.0
22	3.5	1.5	2.5	8.5	8.0	8.0	14.5	13.0	13.5	18.0	16.5	17.0
23	3.5	1.5	2.5	8.5	7.0	8.0	15.0	14.0	14.5	17.0	16.0	16.5
24	3.5	1.5	3.0	8.5	7.0	8.0	15.5	14.5	15.0	16.5	16.0	16.5
25	4.0	2.0	3.0	9.0	7.0	8.5	15.5	15.0	15.0	16.5	15.5	16.0
26	4.5	3.0	3.5	9.0	8.0	8.5	15.5	15.0	---	16.0	15.0	15.5
27	4.5	3.5	4.0	9.0	8.0	8.5	---	---	---	15.5	14.5	15.0
28	4.5	3.0	3.5	9.5	8.5	9.0	---	---	---	15.5	14.5	15.0
29	---	---	---	9.5	9.0	9.5	---	---	---	16.0	15.0	15.5
30	---	---	---	9.5	9.0	9.5	---	---	---	16.5	15.5	16.0
31	---	---	---	10.0	9.5	9.5	---	---	---	17.0	16.0	16.5
MONTH	5.0	1.0	3.5	11.0	3.0	8.0	---	---	---	18.0	14.5	16.5

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.0	25.5	25.0	25.0	28.0	27.0	28.0	28.5	26.5	27.5
2	18.5	17.0	18.0	25.5	24.0	24.5	28.0	26.5	27.5	29.0	28.0	28.5
3	19.0	18.0	18.5	25.0	23.0	24.0	28.5	27.0	28.0	28.5	28.0	28.5
4	20.0	19.0	19.5	25.0	23.0	24.0	28.5	26.5	28.0	29.0	28.0	28.5
5	21.0	19.5	20.0	24.5	23.0	23.5	28.5	28.0	28.5	29.0	28.5	28.5
6	22.0	20.5	21.0	24.5	23.0	23.5	28.5	28.0	28.5	28.5	28.5	28.5
7	23.0	21.0	21.5	24.5	23.5	24.0	28.5	28.0	28.0	28.5	28.0	28.0
8	23.5	22.0	23.0	25.0	24.0	24.5	28.5	28.0	28.0	28.0	27.0	27.5
9	24.5	23.0	23.5	25.5	24.5	25.0	28.5	28.0	28.5	27.0	26.0	26.5
10	25.5	24.0	24.5	26.0	25.5	25.5	29.0	28.0	28.5	26.5	25.5	26.0
11	25.0	24.0	24.5	26.0	25.5	26.0	29.0	28.5	28.5	26.0	25.0	25.5
12	25.5	24.5	24.5	25.5	25.0	25.0	29.0	28.5	28.5	25.5	24.5	25.0
13	25.5	25.0	25.0	25.0	25.0	---	28.5	28.5	28.5	25.0	24.5	24.5
14	25.5	25.0	25.0	---	---	---	28.5	28.0	28.5	25.0	24.0	24.0
15	25.5	25.0	25.0	---	---	---	28.5	28.0	28.0	24.0	23.0	23.5
16	25.5	25.0	25.0	---	---	---	28.0	27.0	28.0	24.0	23.5	23.5
17	25.0	24.0	24.5	---	---	---	28.0	27.0	27.5	23.5	23.0	23.5
18	24.5	24.0	24.0	---	---	---	27.0	27.0	27.0	23.5	23.0	23.0
19	24.5	23.5	24.0	26.5	25.5	---	27.0	26.5	27.0	23.5	22.0	22.5
20	24.5	23.5	24.0	26.5	25.5	26.0	27.0	26.5	26.5	23.0	21.5	22.0
21	25.0	24.0	24.5	26.5	26.0	26.0	26.5	25.5	26.0	23.0	21.0	21.5
22	25.0	24.5	24.5	26.5	26.0	26.0	26.0	25.0	25.5	21.5	21.0	21.0
23	25.0	24.0	24.5	26.5	26.0	26.0	25.5	25.0	25.0	22.0	21.0	21.5
24	25.0	24.5	25.0	27.0	26.0	26.5	25.5	25.0	25.0	22.0	21.0	21.5
25	25.5	24.5	25.0	27.0	26.0	26.5	25.5	25.0	25.0	21.5	21.0	21.0
26	26.0	25.0	25.5	27.0	26.0	26.5	26.0	25.0	25.5	21.5	20.5	21.0
27	26.0	25.5	25.5	27.0	26.5	26.5	26.0	25.5	25.5	21.5	21.0	21.0
28	26.5	25.5	26.0	27.0	26.5	27.0	26.5	25.5	26.0	21.5	21.0	21.0
29	26.0	25.5	26.0	28.0	27.0	27.0	27.0	26.0	26.5	21.5	21.0	21.5
30	26.0	25.5	25.5	28.5	27.0	27.5	28.0	26.5	27.0	21.5	21.0	21.0
31	---	---	---	28.5	27.0	28.0	28.5	27.0	27.5	---	---	---
MONTH	26.5	16.5	23.5	28.5	23.0	---	29.0	25.0	27.0	29.0	20.5	24.5

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.

LOCATION.--Lat 39°30'03", long 75°34'07", New Castle County, water-quality recorder located on platform about 0.4 mile (0.6 km) downstream from Reedy Island near Port Penn.

DRAINAGE AREA.--11,222 mi^2 (29,065 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1973.
Water temperatures: October 1969 to September 1973.

EXTREMES.--1972-73:
Dissolved oxygen: Maximum, 13.7 mg/l Feb. 18-19, minimum, 1.1 mg/l July 10.
Water temperatures: Maximum, 29.0°C Aug. 10-12, Sept. 3; minimum, freezing point on Feb. 17-18.

Period of record:
Specific conductance: Maximum, 35,400 micromhos Nov. 7, 1963; minimum, 100 micromhos on several days in August 1969 and April 1970.
Dissolved oxygen (1970-73): Maximum, 13.7 mg/l Feb. 18, 19, 1973; minimum, 0.3 mg/l Sept. 16, 17, 1971.
pH (1970-73): Maximum, 8.8 Aug. 29, Sept. 2, 1973; minimum, 5.4 Dec. 31, 1972.
Water temperatures (1970-73): Maximum, 29.0°C Aug. 10-12, Sept. 3, 1972; minimum, freezing point on many days during winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	15600	11240	13190	4040	480	1520	6280	920	2620
2	---	---	---	15720	11280	13310	960	360	637	3920	520	1360
3	---	---	---	14640	10480	12500	2000	440	---	3160	360	1000
4	---	---	---	15400	10280	12560	---	---	---	3920	360	1030
5	---	---	---	17600	11520	14070	---	---	---	1680	240	538
6	---	---	---	18360	11560	14460	---	---	---	440	200	332
7	---	---	---	17680	11720	14170	---	---	---	1120	160	293
8	---	---	---	18080	11440	14580	---	---	---	3400	160	745
9	---	---	---	11480	5880	8890	680	280	---	5160	480	2140
10	---	---	---	12560	4120	8180	520	200	302	4760	480	1850
11	---	---	---	11280	2600	7120	320	160	243	4080	480	1620
12	---	---	---	8920	2840	5290	520	160	193	3840	680	1610
13	---	---	---	8800	2480	5180	240	120	188	4880	880	2540
14	18040	11200	---	8120	2320	5640	1040	120	227	6240	1720	3500
15	15960	9920	12290	9320	1520	3770	4560	160	1650	5040	2000	3030
16	17680	10240	14100	9040	720	4120	3920	400	1340	5400	2160	3150
17	15360	8960	11990	5320	920	2830	800	800	---	3800	2080	---
18	16280	8880	12400	8160	1040	3150	3360	240	---	---	---	---
19	13920	10480	---	7320	1120	2720	2680	240	920	---	---	---
20	---	---	---	6000	920	2500	3360	560	1520	---	---	---
21	---	---	---	2920	800	1400	3240	1320	2100	---	---	---
22	---	---	---	2720	840	1320	3320	2000	2560	---	---	---
23	---	---	---	2560	800	1270	4080	960	2290	4360	1720	---
24	---	---	---	1800	840	1080	3320	640	1760	3200	1360	1950
25	19320	11840	---	3400	600	1160	1680	520	982	2240	1000	1380
26	19000	11720	14670	3960	680	2030	1480	440	760	3560	880	1680
27	17560	11720	14190	1880	560	943	1560	400	643	5080	920	2600
28	18200	11440	14170	1120	680	872	2840	400	948	5680	880	2670
29	16440	11160	13780	880	600	735	3560	440	1460	7800	520	3070
30	16960	10520	12890	1920	560	902	5680	840	2540	4600	680	1900
31	15960	10480	12760	---	---	---	5640	1160	3090	4600	880	2070
MONTH	---	---	---	18360	560	6000	5680	120	---	7800	160	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4440	1040	2310	14400	6600	10960	---	---	---	6680	1040	2620
2	6240	1560	3340	15280	6400	9510	---	---	---	6200	1120	2520
3	3080	560	1400	11880	6600	9010	---	---	---	6320	3760	---
4	880	280	528	13280	6080	9280	---	---	---	3160	1120	---
5	400	200	303	10240	6040	---	2160	680	---	4440	1080	1880
6	280	160	235	---	---	---	1560	760	1200	5320	1040	2060
7	320	200	238	---	---	---	1160	600	942	5200	1080	2380
8	400	200	---	---	---	---	960	480	762	5160	1720	2910
9	---	---	---	---	---	---	1280	320	603	4680	1520	2640
10	---	---	---	---	---	---	680	280	440	3880	1400	2320
11	---	---	---	---	---	---	520	240	385	3960	1200	2130
12	---	---	---	---	---	---	480	280	375	3680	1200	1910
13	8640	3560	---	6120	3520	---	480	280	360	2600	920	1490
14	9880	2320	4540	9120	3320	5080	3280	280	687	2360	680	1210
15	9040	2200	4940	9400	3200	5320	2320	240	642	3320	680	1150
16	6720	2120	3760	9960	3240	5400	1600	240	505	3720	640	1340
17	7400	1400	3210	10200	3280	5850	920	240	405	2240	720	1220
18	10840	2400	5850	5040	1240	2910	840	280	388	2240	560	993
19	10800	3160	5900	2640	880	1330	1440	280	462	3280	560	1080
20	9000	2880	4900	6360	880	2190	1120	280	533	3000	520	988
21	9080	2600	4910	8160	1160	3010	2480	360	773	2440	400	823
22	9920	2960	5170	8240	2000	4200	1360	360	643	2360	440	765
23	9760	2480	5490	9480	2680	6180	840	360	533	2720	360	945
24	11120	2400	4980	12680	3720	8570	2320	440	962	3680	440	1570
25	8800	2160	4640	11560	3760	7300	2760	520	1260	3840	600	2160
26	9520	2440	5560	11000	3320	6780	3560	800	1950	5520	920	3020
27	9640	3240	7160	10440	4280	7590	6000	1520	3830	4200	1120	2400
28	13680	6720	9930	11360	5040	8320	6160	1480	3670	3760	1080	2030
29	---	---	---	12520	4600	7840	5840	1120	2640	2200	560	1230
30	---	---	---	9720	4080	6930	7200	1080	2530	2600	480	885
31	---	---	---	8240	4120	---	---	---	---	1760	320	768
MONTH	13680	160	4060	---	---	---	7200	240	1100	6680	320	1700

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1960	360	662	1480	320	623	10080	4720	6840	13040	6560	9010
2	2320	320	677	680	280	378	11920	4520	7300	11960	6640	8820
3	2640	320	763	400	120	322	9360	3680	5720	11560	6600	---
4	2280	400	798	360	240	303	7280	3200	4790	---	---	---
5	1240	360	635	320	240	270	6680	2880	4180	---	---	---
6	1400	360	692	280	200	242	7360	3040	4570	---	---	---
7	840	320	555	840	200	305	7960	3440	5220	---	---	---
8	840	360	515	1880	200	617	8760	3920	5960	---	---	---
9	680	320	462	3200	360	1310	11880	3280	6440	---	---	---
10	1560	320	488	5240	2200	3130	11760	2920	6100	---	---	---
11	1960	320	635	6640	3760	4660	11520	3120	6140	---	---	---
12	2200	440	768	7680	4840	5690	11160	3040	6360	---	---	---
13	3080	560	1020	9120	2240	6190	10480	3960	6470	---	---	---
14	5480	520	1590	10840	2120	4680	11280	4720	7220	---	---	---
15	6520	640	2030	10960	2120	5020	12040	5640	8000	---	---	---
16	6640	920	2550	12320	2600	6050	11760	4720	7770	---	---	---
17	5040	840	2140	12960	3600	6810	11160	5000	7580	---	---	---
18	6440	1360	2970	12120	4040	6730	10640	4920	7460	---	---	---
19	4400	1520	2510	11520	4040	6770	11560	5000	7810	14200	8680	---
20	4840	1880	3020	9760	3520	6040	11160	5080	7930	13880	7560	10490
21	4880	2200	3280	8840	3160	5510	10040	5840	7610	13840	7560	9640
22	4320	2120	2960	10320	3120	5890	10680	5680	7610	14200	7400	10220
23	4440	2120	3030	10280	3320	6340	12680	5520	8690	12600	6320	9060
24	4960	2160	3230	11120	3480	6030	13040	5840	8370	13480	6200	8890
25	5320	2120	3250	12320	3640	6160	13720	6040	8430	13360	7160	9780
26	5400	2280	3390	11520	3480	6250	12640	6080	8400	11520	6640	9020
27	5640	2360	3440	11120	3160	5630	12600	5880	8140	10480	6320	8240
28	8320	2440	4170	12120	3200	5780	13360	5840	8530	9640	5600	7220
29	6080	2480	3650	11640	3600	6080	12240	6080	8550	10400	5720	7550
30	3840	640	1720	11160	3920	6340	13720	6160	9250	8000	5720	---
31	---	---	---	11360	4120	6460	13080	6600	9290	---	---	---
MONTH	8320	320	1920	12960	120	4280	13720	2880	7180	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.0	7.9	8.5	10.2	9.6	9.9	10.8	10.0	10.4
2	---	---	---	8.9	7.7	8.4	10.3	9.5	9.8	10.7	10.0	10.4
3	7.5	5.5	---	8.7	7.7	8.3	9.9	9.6	---	10.8	10.1	10.4
4	7.6	5.3	6.7	8.9	7.3	8.1	---	---	---	10.6	10.0	10.3
5	7.7	6.1	6.8	8.7	7.4	8.1	---	---	---	10.3	9.5	10.0
6	8.2	5.9	7.0	8.9	7.6	8.4	---	---	---	11.5	9.6	10.5
7	8.3	6.2	7.0	8.8	7.6	8.3	---	---	---	12.0	10.1	11.3
8	8.3	6.5	7.3	9.1	8.2	8.7	---	---	---	12.1	11.2	11.6
9	8.6	6.3	7.2	8.5	7.3	8.1	10.0	9.2	---	12.0	11.6	11.8
10	8.2	6.1	7.1	9.0	5.7	7.7	9.5	8.7	9.1	12.1	11.5	11.8
11	8.5	6.8	7.6	8.3	3.9	6.6	9.4	8.5	9.0	12.0	11.5	11.8
12	---	---	---	6.5	3.9	5.0	9.2	8.7	9.0	12.3	11.7	12.0
13	---	---	---	6.4	3.6	4.5	10.0	8.8	9.4	12.5	11.8	12.1
14	7.2	6.7	---	6.2	3.5	5.4	10.0	9.3	9.6	12.7	11.7	12.2
15	7.8	6.8	7.3	7.0	4.8	5.8	10.5	9.5	10.0	12.5	11.5	11.9
16	8.0	7.4	7.7	7.0	6.3	6.6	11.9	10.1	10.8	12.5	11.3	11.8
17	8.0	7.5	7.8	6.8	6.2	6.6	---	---	---	11.8	11.1	---
18	8.1	7.9	---	7.2	6.3	6.7	12.7	12.0	---	---	---	---
19	---	---	---	7.3	6.5	6.7	12.4	11.8	12.1	---	---	---
20	---	---	---	7.8	6.8	7.3	12.0	11.6	11.8	---	---	---
21	---	---	---	8.2	7.7	8.0	12.0	11.6	11.8	---	---	---
22	---	---	---	8.4	8.1	8.3	12.1	11.5	11.8	---	---	---
23	---	---	---	8.8	8.2	8.5	11.9	11.2	11.6	12.0	11.4	---
24	---	---	---	8.9	8.5	8.7	11.6	10.6	11.2	11.9	11.2	11.5
25	8.6	7.9	---	8.8	8.3	8.5	11.1	10.2	10.6	11.6	10.9	11.3
26	8.8	7.8	8.4	9.4	8.4	9.1	10.5	9.9	10.2	11.7	10.9	11.2
27	8.7	7.7	8.3	9.4	8.9	9.2	10.6	9.8	10.2	11.7	10.9	11.3
28	8.9	7.6	8.4	9.5	9.1	9.3	10.7	10.1	10.4	11.7	10.4	11.0
29	8.6	7.6	8.2	9.8	9.2	9.4	11.0	10.2	10.7	11.8	9.8	11.0
30	9.0	7.4	8.2	10.0	9.2	9.7	10.9	10.1	10.5	11.1	10.3	10.8
31	9.1	7.8	8.4	---	---	---	10.8	10.1	10.4	11.4	10.4	10.8
MONTH	---	---	---	10.0	3.5	7.8	12.7	8.5	---	12.7	9.5	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.3	10.7	11.0	13.2	12.3	12.7	---	---	---	8.1	7.2	7.7
2	12.0	10.8	11.3	12.9	11.3	12.1	---	---	---	7.8	6.6	7.3
3	11.4	9.8	10.6	12.0	11.0	11.6	---	---	---	7.5	6.5	7.1
4	11.0	10.3	10.7	12.1	10.6	11.5	---	---	---	7.4	6.4	7.0
5	11.1	10.3	10.7	11.6	10.4	---	8.3	7.1	---	7.4	6.8	7.2
6	11.0	10.4	10.8	---	---	---	8.4	7.4	7.9	7.6	6.7	7.1
7	11.3	10.6	11.0	---	---	---	8.2	7.5	7.9	7.5	6.4	7.0
8	10.8	10.5	10.7	---	---	---	8.7	7.8	8.3	8.4	6.9	7.9
9	11.8	10.7	11.3	---	---	---	8.6	7.9	8.3	8.3	7.4	7.7
10	12.1	11.2	11.6	---	---	---	9.1	8.1	8.7	7.5	6.8	7.2
11	13.0	11.8	12.5	---	---	---	9.5	8.6	9.0	7.3	6.3	7.0
12	13.2	12.4	12.8	---	---	---	9.6	8.9	9.2	7.1	6.3	6.8
13	13.0	12.1	12.5	9.9	9.2	---	9.5	9.1	9.3	6.7	5.8	6.4
14	12.6	11.9	12.2	10.7	9.1	9.7	9.5	9.1	9.3	6.4	5.1	5.9
15	12.7	11.6	12.2	10.6	8.8	9.5	9.2	8.8	9.0	6.3	5.1	5.7
16	12.5	11.5	12.0	10.4	8.4	9.2	9.1	8.6	8.9	6.3	4.7	5.6
17	13.6	12.2	13.0	10.5	8.5	9.6	9.0	8.5	8.9	6.4	4.9	5.9
18	13.7	12.8	13.3	10.8	9.5	10.3	8.7	8.3	8.6	6.9	5.3	6.3
19	13.7	12.5	13.0	11.0	9.8	10.6	8.4	8.0	8.3	6.8	5.4	6.1
20	13.2	12.1	12.7	10.7	9.8	10.3	8.3	7.9	8.2	6.6	5.4	6.0
21	13.1	11.8	12.5	10.5	10.0	10.2	8.4	7.9	8.2	7.1	5.4	6.1
22	13.1	12.1	12.6	10.7	10.2	10.5	8.2	7.5	8.0	6.8	5.9	6.2
23	13.3	12.3	12.8	11.0	10.4	10.7	8.0	7.4	7.7	6.2	5.3	5.9
24	13.2	12.4	12.7	11.2	10.1	10.8	7.9	7.4	7.6	6.7	5.3	6.0
25	13.1	12.2	12.6	10.9	9.7	10.3	8.0	7.4	7.7	7.1	6.1	6.6
26	13.0	12.2	12.6	10.9	9.5	10.2	8.4	7.8	8.2	7.3	6.0	6.6
27	13.4	12.3	13.0	10.4	9.6	10.1	8.8	8.0	8.5	6.8	6.0	6.4
28	13.5	12.4	13.0	10.6	9.6	10.1	8.5	7.9	8.2	7.1	5.7	6.4
29	---	---	---	10.2	9.0	9.7	8.5	7.8	8.2	6.6	5.5	6.0
30	---	---	---	9.8	8.6	9.3	8.3	7.6	7.9	6.0	5.1	5.5
31	---	---	---	9.3	8.4	---	---	---	---	6.0	4.7	5.3
MONTH	13.7	9.8	12.1	---	---	---	9.6	7.1	8.4	8.4	4.7	6.5

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.6	4.4	4.9	3.5	1.5	2.7	5.4	4.5	5.0	5.9	4.8	5.2
2	5.3	4.2	4.6	3.5	1.4	2.6	5.8	4.9	5.3	5.9	4.7	5.1
3	5.2	3.6	4.5	3.6	1.6	2.7	5.2	4.7	5.1	5.3	4.6	---
4	5.8	3.8	4.5	4.5	1.7	2.5	5.2	4.4	4.8	---	---	---
5	6.2	3.9	4.6	2.5	1.5	1.8	5.0	4.4	4.7	---	---	---
6	6.7	4.1	5.0	2.6	1.4	1.8	5.0	4.4	4.7	---	---	---
7	6.0	3.7	5.1	2.4	1.2	1.7	5.4	4.3	4.9	---	---	---
8	5.8	3.9	5.2	2.2	1.3	1.6	6.0	4.4	5.1	---	---	---
9	6.3	4.6	5.5	1.9	1.2	1.6	5.8	4.5	5.3	---	---	---
10	6.7	4.7	5.7	2.2	1.1	1.6	6.0	4.5	5.2	---	---	---
11	6.7	4.8	5.7	3.1	1.6	2.1	5.6	4.7	5.1	---	---	---
12	6.8	4.9	5.8	4.4	2.7	3.5	5.3	4.5	4.8	---	---	---
13	6.6	5.1	5.8	4.6	3.5	4.0	5.3	4.4	4.8	---	---	---
14	6.9	5.0	5.8	4.8	3.7	4.2	5.3	4.2	4.8	---	---	---
15	7.0	5.2	6.0	4.9	3.9	4.3	5.5	3.9	4.7	---	---	---
16	6.4	5.3	5.9	5.0	4.0	4.5	6.1	4.3	5.2	---	---	---
17	6.3	5.2	5.8	5.1	3.9	4.3	7.0	4.8	5.8	---	---	---
18	6.3	5.4	6.0	4.7	3.5	4.0	6.4	4.8	5.7	---	---	---
19	6.1	5.4	5.8	4.5	2.0	4.0	7.2	5.1	6.0	4.6	3.1	---
20	6.0	5.1	5.5	4.6	3.9	4.2	6.7	5.2	6.1	5.4	4.6	5.0
21	6.0	5.0	5.5	4.9	4.0	4.5	6.9	5.6	6.4	6.2	5.4	5.9
22	5.5	4.7	5.0	5.0	4.2	4.7	7.3	6.2	6.7	6.1	5.6	5.9
23	5.6	4.4	4.9	5.0	3.9	4.5	6.9	6.1	6.6	6.0	5.5	5.7
24	5.7	4.4	5.1	5.1	2.0	4.4	6.8	5.9	6.3	6.0	5.3	5.6
25	5.8	4.3	5.1	5.4	4.2	4.7	6.7	5.6	6.2	6.2	5.5	5.8
26	5.8	4.4	5.0	5.4	4.6	5.1	6.6	5.6	6.1	6.0	5.5	5.7
27	5.6	4.2	4.9	5.8	4.9	5.4	6.5	5.3	5.7	5.7	5.0	5.4
28	6.1	4.4	5.3	5.7	5.0	5.3	6.3	5.2	5.7	5.8	4.6	5.1
29	6.0	4.8	5.5	5.6	4.7	5.1	6.5	5.2	5.6	5.4	4.3	4.9
30	5.3	2.2	4.1	5.3	4.6	4.9	6.4	5.0	5.5	5.2	4.7	---
31	---	---	---	5.1	4.5	4.8	6.3	4.9	5.3	---	---	---
MONTH	7.0	2.2	5.3	5.8	1.1	3.6	7.3	3.9	5.5	---	---	---

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.3	7.0	7.1	6.5	6.2	6.3	6.6	5.5	6.2
2	---	---	---	7.3	7.0	7.2	6.3	6.1	6.2	6.5	6.3	6.4
3	7.0	6.8	---	7.2	7.0	7.1	6.3	6.1	---	6.5	6.2	6.3
4	7.0	6.6	6.8	7.3	6.9	7.1	---	---	---	6.1	5.9	6.0
5	6.8	6.5	6.6	7.4	6.9	7.2	---	---	---	6.3	5.9	6.2
6	7.0	6.5	6.7	7.4	6.9	7.2	---	---	---	6.4	6.2	6.3
7	7.0	6.5	6.8	7.4	6.9	7.1	---	---	---	6.5	6.2	6.4
8	7.2	6.9	7.0	7.3	6.9	7.1	---	---	---	6.5	6.3	6.4
9	7.2	6.8	7.0	6.9	6.5	6.7	6.7	6.6	---	6.7	6.5	6.6
10	7.0	6.8	6.9	7.1	6.3	6.6	6.7	6.5	6.6	6.7	6.5	6.6
11	7.0	6.8	6.9	7.1	6.2	6.6	6.6	6.5	6.6	6.8	6.5	6.7
12	---	---	---	6.9	6.6	6.7	6.5	6.4	6.4	6.8	6.5	6.6
13	---	---	---	6.9	6.5	6.7	6.6	6.4	6.5	6.9	6.5	6.7
14	6.7	6.3	---	6.8	6.5	6.7	6.7	6.5	6.6	7.0	6.6	6.8
15	6.8	6.2	6.7	6.8	6.6	6.7	6.9	6.5	6.7	6.9	6.5	6.7
16	6.7	6.5	6.7	6.9	6.6	6.7	6.9	6.7	6.8	7.1	6.5	6.7
17	6.9	6.3	6.7	6.7	6.5	6.7	6.9	6.9	---	6.6	6.3	---
18	6.8	6.7	---	7.0	6.6	6.8	7.0	6.9	---	---	---	---
19	---	---	---	6.9	6.5	6.7	7.2	6.9	7.0	---	---	---
20	---	---	---	6.9	6.4	6.7	7.2	6.9	7.1	---	---	---
21	---	---	---	6.8	6.5	6.7	7.3	7.0	7.1	---	---	---
22	---	---	---	6.9	6.6	6.7	7.3	7.0	7.2	---	---	---
23	---	---	---	6.9	6.5	6.7	7.2	6.6	6.9	6.9	6.7	---
24	---	---	---	6.8	6.5	6.6	6.8	6.5	6.7	6.8	6.6	6.7
25	7.3	6.9	---	6.6	6.0	6.3	6.6	6.4	6.5	6.8	6.5	6.7
26	7.3	6.9	7.1	6.4	6.1	6.3	6.5	6.4	6.5	6.9	6.5	6.7
27	7.2	6.9	7.1	6.3	6.1	6.2	6.5	6.4	6.5	6.9	6.5	6.8
28	7.2	6.9	7.0	6.3	6.1	6.2	6.6	6.5	6.5	6.9	6.7	6.8
29	7.1	6.9	7.0	6.3	6.1	6.2	6.7	6.5	6.6	7.1	6.6	6.8
30	7.2	6.8	7.0	6.3	6.1	6.2	6.8	6.4	6.6	6.7	6.6	6.7
31	7.2	6.8	7.0	---	---	---	6.4	5.4	6.1	6.9	6.7	6.8
MONTH	---	---	---	7.4	6.0	6.7	7.3	5.4	---	7.1	5.5	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.7	6.8	7.6	7.0	7.3	---	---	---	---	---	---
2	7.1	6.8	7.0	7.3	6.5	6.9	---	---	---	---	---	---
3	7.0	6.6	6.8	6.9	6.5	6.7	---	---	---	---	---	---
4	6.9	6.6	6.8	7.0	6.5	6.8	---	---	---	6.6	6.5	---
5	6.9	6.6	6.7	6.8	6.5	---	6.7	6.5	---	6.7	6.5	6.6
6	6.7	6.5	6.6	---	---	---	6.8	6.5	6.6	6.8	6.6	6.6
7	6.7	6.5	6.6	---	---	---	6.8	6.6	6.7	6.8	6.6	6.7
8	6.7	6.5	6.6	---	---	---	7.2	6.6	6.9	7.0	6.6	6.9
9	6.7	6.5	6.6	---	---	---	6.8	6.4	6.6	6.9	6.5	6.7
10	6.6	6.4	6.5	---	---	---	7.3	6.5	6.8	6.8	6.7	---
11	7.0	6.4	6.8	---	---	---	6.7	6.4	6.6	---	---	---
12	7.3	6.8	7.1	---	---	---	6.7	6.4	6.6	---	---	---
13	7.3	6.9	7.1	6.9	6.7	---	6.7	6.6	6.7	---	---	---
14	7.1	6.7	7.0	7.0	6.7	6.8	6.9	6.5	6.7	---	---	---
15	7.4	6.9	7.0	7.1	6.7	6.9	6.9	6.6	6.7	---	---	---
16	7.1	6.6	6.9	7.4	6.8	7.0	7.2	6.5	6.8	---	---	---
17	7.2	6.5	6.8	6.9	6.9	---	7.3	6.8	7.0	---	---	---
18	7.4	6.9	7.1	7.1	6.8	7.0	7.2	6.8	7.1	---	---	---
19	7.5	6.9	7.2	7.2	6.8	7.1	7.3	6.8	---	---	---	---
20	7.4	7.0	7.1	7.2	7.1	---	---	---	---	---	---	---
21	7.3	6.7	7.0	---	---	---	---	---	---	---	---	---
22	7.3	6.8	7.0	---	---	---	---	---	---	---	---	---
23	7.4	6.8	7.1	---	---	---	---	---	---	---	---	---
24	7.4	6.8	7.1	---	---	---	---	---	---	---	---	---
25	7.4	6.8	7.1	---	---	---	---	---	---	---	---	---
26	7.5	6.8	7.2	---	---	---	---	---	---	---	---	---
27	7.4	6.8	7.1	---	---	---	---	---	---	---	---	---
28	7.5	7.0	7.3	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	6.7	6.6	---
MONTH	7.5	6.4	6.9	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.5	6.7	---	---	---	6.7	6.4	6.6	8.7	7.6	8.3
2	6.7	6.4	6.6	---	---	---	6.7	6.4	6.5	8.8	7.8	8.3
3	6.7	6.6	6.6	---	---	---	6.7	6.4	6.5	8.7	7.7	---
4	6.8	6.5	6.7	---	---	---	6.8	6.4	6.6	---	---	---
5	6.7	6.5	6.6	---	---	---	6.8	6.5	6.6	---	---	---
6	6.7	6.4	6.5	---	---	---	6.8	6.5	6.6	---	---	---
7	7.0	6.3	6.7	---	---	---	6.9	6.5	6.7	---	---	---
8	7.1	6.8	7.0	---	---	---	6.9	6.5	6.7	---	---	---
9	7.1	6.9	7.1	---	---	---	7.3	6.6	7.0	---	---	---
10	7.1	6.9	7.0	---	---	---	7.2	6.8	7.0	---	---	---
11	7.0	6.7	6.9	---	---	---	6.9	6.6	6.8	---	---	---
12	6.9	6.6	6.8	---	---	---	6.9	6.6	6.7	---	---	---
13	6.8	6.6	6.7	---	---	---	6.9	6.6	6.7	---	---	---
14	7.0	6.6	6.8	---	---	---	6.9	6.6	6.7	---	---	---
15	7.0	6.7	6.8	---	---	---	6.9	6.6	6.8	---	---	---
16	7.1	6.7	6.9	---	---	---	7.1	6.6	6.9	---	---	---
17	6.9	6.7	---	---	---	---	7.2	6.8	7.0	---	---	---
18	---	---	---	---	---	---	6.9	6.4	6.7	---	---	---
19	---	---	---	---	---	---	7.1	6.4	6.7	---	---	---
20	---	---	---	---	---	---	7.1	6.7	6.9	---	---	---
21	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
22	---	---	---	---	---	---	7.1	6.7	6.9	---	---	---
23	---	---	---	---	---	---	7.2	6.7	7.0	---	---	---
24	---	---	---	---	---	---	7.1	6.8	7.0	---	---	---
25	---	---	---	---	---	---	7.2	6.8	6.9	---	---	---
26	---	---	---	---	---	---	8.4	6.9	7.9	---	---	---
27	---	---	---	---	---	---	8.3	7.3	7.9	---	---	---
28	---	---	---	---	---	---	8.5	8.0	8.3	---	---	---
29	---	---	---	7.1	6.7	6.9	8.8	7.5	8.1	---	---	---
30	---	---	---	6.9	6.6	6.7	8.5	7.7	8.2	---	---	---
31	---	---	---	6.8	6.6	6.7	8.5	7.3	8.2	---	---	---
MONTH	---	---	---	---	---	---	8.8	6.4	7.0	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.0	12.0	12.0	6.0	6.0	6.0	5.5	4.5	5.0
2	---	---	---	13.0	12.0	12.5	6.5	5.5	6.0	5.0	4.5	5.0
3	19.5	18.5	---	14.0	13.0	13.5	6.5	6.0	---	5.0	4.0	4.5
4	19.5	18.5	18.5	13.5	13.0	13.0	---	---	---	4.5	4.5	4.5
5	19.0	18.5	18.5	13.0	13.0	13.0	---	---	---	4.5	4.5	4.5
6	19.0	18.5	18.5	13.5	11.5	12.5	---	---	---	4.5	4.0	4.0
7	18.5	18.0	18.5	13.0	12.0	12.5	---	---	---	4.0	2.0	3.0
8	18.0	16.5	17.5	13.0	12.0	12.0	---	---	---	3.0	1.5	2.0
9	17.0	16.5	17.0	12.0	11.5	12.0	6.0	6.0	---	2.0	1.5	1.5
10	16.5	15.5	16.0	13.0	11.5	12.0	6.5	6.0	6.0	2.0	1.0	1.5
11	16.5	15.5	16.0	13.0	11.5	12.0	6.5	6.0	6.0	2.0	1.0	1.0
12	---	---	---	13.0	12.0	12.0	6.0	5.5	6.0	1.5	0.5	1.0
13	---	---	---	13.5	11.5	12.0	6.5	6.0	6.0	1.5	0.5	0.5
14	16.0	15.5	---	13.0	11.5	12.0	6.0	6.0	6.0	1.5	0.5	0.5
15	15.5	14.5	15.0	12.0	10.5	11.0	6.0	5.5	5.5	1.5	0.5	1.0
16	15.0	14.5	14.5	11.0	10.5	10.5	5.5	4.0	5.0	2.0	0.5	1.0
17	15.5	14.0	14.5	10.5	10.0	10.0	6.5	2.0	3.5	1.5	1.0	---
18	14.5	14.0	14.0	10.5	9.5	10.0	4.0	2.0	3.0	---	---	---
19	14.0	12.0	13.5	9.5	9.0	9.5	4.0	3.0	3.5	---	---	---
20	13.5	13.0	13.0	9.5	8.5	9.0	4.0	3.5	4.0	---	---	---
21	13.0	12.0	12.5	9.0	8.0	8.5	4.0	3.5	4.0	---	---	---
22	13.0	12.0	12.0	8.5	7.0	7.5	4.0	4.0	4.0	---	---	---
23	13.5	12.0	13.0	8.0	6.5	7.0	4.5	4.0	4.0	3.5	3.0	---
24	13.5	13.0	---	7.0	6.0	6.5	4.5	4.0	4.5	3.5	3.0	3.0
25	13.5	12.0	---	6.5	6.0	6.5	5.0	4.5	4.5	3.5	3.0	3.0
26	13.5	12.0	13.0	7.0	6.5	7.0	5.0	4.5	4.5	4.0	3.0	3.5
27	13.5	12.0	13.0	7.0	6.5	7.0	5.0	4.5	4.5	3.5	3.5	3.5
28	14.0	13.0	13.5	7.0	6.5	6.5	5.0	4.5	4.5	4.0	3.5	3.5
29	14.0	13.5	13.5	7.0	6.0	6.5	4.5	4.0	4.5	4.0	3.0	3.5
30	14.0	12.0	13.5	6.0	6.0	6.0	4.5	4.0	4.0	3.5	3.0	3.0
31	13.0	12.0	12.5	---	---	---	5.0	4.0	4.5	3.5	2.0	3.0
MONTH	19.5	12.0	---	14.0	6.0	10.0	6.5	2.0	---	5.5	0.5	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	2.0	2.5	3.5	2.0	2.5	---	---	---	14.5	13.5	14.0
2	4.0	3.0	3.0	4.0	3.0	3.0	---	---	---	15.5	14.0	14.5
3	4.5	3.5	4.0	3.5	3.0	3.0	---	---	---	15.5	15.0	15.0
4	4.5	4.0	4.5	4.0	3.5	3.5	---	---	---	15.5	14.5	15.0
5	5.0	4.5	4.5	4.5	3.5	---	9.5	9.0	---	15.0	14.5	14.5
6	4.5	4.5	4.5	---	---	---	10.0	8.5	9.5	15.5	14.5	15.0
7	5.0	4.0	4.5	---	---	---	10.5	9.5	10.0	16.0	14.5	15.0
8	5.0	4.5	4.5	---	---	---	10.0	9.5	9.5	15.0	14.5	15.0
9	4.5	3.5	4.0	---	---	---	10.5	9.0	9.5	16.0	14.5	15.5
10	3.5	2.0	3.0	---	---	---	10.5	9.5	10.0	17.0	15.5	16.0
11	3.0	1.5	2.0	---	---	---	9.5	8.5	9.0	18.0	16.0	16.5
12	2.0	1.0	1.5	---	---	---	9.0	8.5	9.0	18.0	16.5	17.0
13	3.0	1.5	2.0	8.5	7.0	---	9.0	8.0	8.5	18.0	16.5	17.5
14	2.0	2.0	2.0	8.5	6.5	7.5	9.5	8.0	8.5	18.5	17.0	17.5
15	3.5	2.0	2.5	8.5	7.0	8.0	10.0	8.5	9.0	17.0	16.5	17.0
16	3.5	1.5	2.5	8.5	8.0	8.0	10.5	9.0	9.5	18.0	16.0	17.0
17	1.0	0.0	0.5	9.0	8.0	8.5	11.0	9.5	10.0	18.0	16.5	17.0
18	1.0	0.0	0.5	8.5	8.0	8.0	11.5	10.0	10.5	17.0	16.0	16.5
19	1.5	0.5	1.0	8.0	7.0	8.0	11.5	10.5	11.0	18.0	16.0	16.5
20	1.5	1.0	1.0	8.5	7.0	7.5	12.0	11.0	11.5	17.0	16.0	16.5
21	2.0	1.0	1.5	6.5	6.5	6.5	12.0	11.0	11.5	17.0	16.5	16.5
22	2.0	1.0	1.5	6.5	6.0	6.0	14.0	11.5	12.5	18.5	16.0	17.0
23	2.0	1.0	1.5	6.5	5.5	6.0	14.0	13.0	13.5	18.0	16.5	17.0
24	2.0	1.0	1.5	7.0	5.5	6.0	14.5	13.0	14.0	17.0	16.5	16.5
25	3.0	1.0	2.0	7.0	6.0	6.5	14.5	13.5	13.5	16.5	16.0	16.0
26	3.0	1.5	2.0	7.0	6.0	6.5	13.5	13.0	13.0	16.5	15.5	16.0
27	2.0	1.5	1.5	8.0	6.5	7.0	14.0	12.0	13.0	16.0	15.5	15.5
28	3.5	1.5	2.0	8.5	6.5	7.0	14.0	13.0	13.5	16.5	15.5	16.0
29	---	---	---	8.5	7.0	8.0	14.0	13.0	13.5	18.5	16.0	17.0
30	---	---	---	8.5	7.0	8.0	14.5	13.5	13.5	18.5	17.0	17.5
31	---	---	---	8.5	8.0	---	---	---	---	19.0	17.0	18.0
MONTH	5.0	0.0	2.5	---	---	---	14.5	8.0	11.0	19.0	13.5	16.0

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.0	18.5	26.5	25.5	26.0	27.0	26.5	26.5	28.0	26.5	27.5
2	19.5	18.5	19.0	26.0	25.5	25.5	27.0	26.0	26.5	28.5	27.0	28.0
3	20.0	18.5	19.5	26.0	25.0	25.5	27.0	26.5	26.5	29.0	27.0	---
4	21.5	19.5	20.0	27.0	25.0	26.0	28.0	26.5	27.0	---	---	---
5	22.0	20.0	21.0	26.5	25.5	26.0	28.0	26.5	27.0	---	---	---
6	22.0	20.5	21.5	26.0	25.5	25.5	28.5	26.5	27.5	---	---	---
7	23.0	21.0	21.5	26.0	25.0	25.5	28.5	26.5	27.5	---	---	---
8	24.0	22.0	22.5	28.0	25.0	26.0	28.5	26.5	27.0	---	---	---
9	24.5	23.0	23.5	27.0	25.5	26.5	28.5	26.5	27.5	---	---	---
10	25.5	23.5	24.5	27.0	26.0	26.5	29.0	27.0	27.5	---	---	---
11	26.0	24.0	25.0	27.0	25.5	26.5	29.0	27.0	28.0	---	---	---
12	26.5	25.0	25.5	26.0	25.0	25.5	29.0	27.0	28.0	---	---	---
13	26.5	25.0	25.5	26.0	25.0	25.5	28.5	27.0	28.0	---	---	---
14	26.0	24.5	25.5	26.5	25.0	25.5	28.0	27.0	27.5	---	---	---
15	26.0	24.5	25.0	26.0	25.0	25.5	28.5	26.5	27.5	---	---	---
16	25.0	24.5	24.5	26.5	25.0	25.5	28.0	26.5	27.0	---	---	---
17	25.0	23.5	24.5	25.5	25.0	25.5	28.0	26.5	27.0	---	---	---
18	24.0	23.0	23.5	26.0	24.5	25.5	26.5	26.5	26.5	---	---	---
19	23.5	23.0	23.0	26.0	25.0	25.5	26.5	26.0	26.0	22.0	21.5	---
20	24.0	23.0	23.5	26.5	25.5	26.0	26.5	25.5	26.0	22.0	21.0	21.0
21	24.0	23.0	23.5	26.5	25.5	26.0	26.0	25.0	25.5	21.0	20.0	20.5
22	24.0	23.5	23.5	26.0	25.5	25.5	25.0	24.0	24.5	20.5	20.0	20.0
23	24.0	23.5	23.5	26.5	25.5	25.5	25.0	24.0	24.5	21.0	20.0	20.5
24	24.5	23.5	24.0	26.5	25.5	26.0	25.5	24.0	24.5	21.5	20.0	20.5
25	25.0	23.5	24.0	27.0	25.5	25.5	25.5	24.5	25.0	20.0	19.5	20.0
26	25.5	24.0	24.5	26.5	25.5	25.5	26.0	24.5	25.0	20.5	19.0	19.5
27	25.5	24.0	24.5	27.0	25.5	26.0	26.5	25.0	25.5	20.0	19.5	19.5
28	25.5	24.5	25.0	27.0	26.0	26.5	26.5	25.0	26.0	20.5	19.5	19.5
29	25.5	24.5	25.0	27.0	26.0	26.5	28.0	25.5	26.5	20.0	19.5	19.5
30	26.0	25.0	25.5	28.0	26.0	26.5	28.0	26.0	26.5	19.5	19.0	---
31	---	---	---	28.0	26.5	27.0	28.5	26.5	27.0	---	---	---
MONTH	26.5	18.0	23.5	28.0	24.5	26.0	29.0	24.0	26.5	---	---	---

DELAWARE RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)												
NOV., 1972 02...	--	2.9	51	41	200	12	23	0	19	0	140	400
DEC. 21...	--	5.6	18	4.8	7.4	1.5	32	0	26	0	27	11
JAN., 1973 03...	--	5.8	17	5.7	6.1	1.5	40	0	33	0	30	10

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 48 01 LONG 075 25 10)											
NOV., 1972 02...	.5	3.0	.03	954	859	296	277	1484	7.2	5	2.0
DEC. 21...	.3	2.0	.14	106	92	65	38	163	7.3	3	3.0
JAN., 1973 03...	.2	1.9	.14	114	96	66	33	176	7.4	3	3.0

LAKES IN DELAWARE RIVER BASIN

411257075032300 LAKE MINISINK.--Lat 41°12'57", long 75°03'23", Pike County, 2 miles (3.2 km) southeast of Porters Lake at point in middle of lake on tributary to Saw Creek. Drainage area, 1.0 mi^2 (2.6 km^2). Surface area, 34 acres (137,000 m^2). Capacity at normal pool elevation of 1,341 ft (409 m), 350 acre-feet (432,000 m^3). Mean flow-through-time, 90 days at 2 ft^3/s (0.06 m^3/s). Period of record, chemical analyses, water year 1973 (partial-record station). Lake is used for recreation.

401233075474900 SCOTTS RUN LAKE.--Lat 40°12'33", long 75°47'49", Berks County, 6 miles (9.7 km) south of Birdsboro at point 200 ft (61 m) upstream from dam on Scotts Run. Drainage area, 1.0 mi^2 (2.6 km^2). Surface area, 21 acres (8.5 m^2). Capacity at normal pool elevation of 587 ft (179 m), 249 acre-feet (307,000 m^3). Mean flow-through-time, 85 days at 1.5 ft^3/s (0.04 m^3/s). Period of record, chemical analyses, water year 1973 (partial-record station). Lake is used for recreation.

401216075464300 HOPEWELL LAKE.--Lat 40°12'16", long 75°46'43", Berks County, 6 miles (9.7 km) south of Birdsboro at point 400 ft (122 m) upstream from dam on French Creek. Drainage area, 2.7 mi^2 (7.0 km^2). Surface area, 68 acres (27.5 m^2). Capacity at normal pool elevation of 505 ft (154 m), 537 acre-feet (662,000 m^3). Mean flow-through-time, 89 days at 3 ft^3/s (0.08 m^3/s). Period of record, chemical analyses, water year 1973 (partial-record station). Lake is used for recreation.

411257075032300 LAKE MINISINK (LAT 41 12 57 LONG 075 03 23)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY											
03...	1130	2.0	40	0	3.0	.7	1.4	.5	6	0	5

DATE	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JULY											
03...	0	5.8	2.3	.2	.05	.00	.05	.13	.26	.39	.44

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
JULY										
03...	.02	.01	35	19	10	5	37	6.2	10	6.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
JULY										
03...	.0	0	14	5.1	.0	.0	.0	.0	.0	.0

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JULY										
03...	0	0	0	0	2	0	0	1	0	30

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

DELAWARE RIVER BASIN

401233075474900 SCOTTS RUN LAKE (LAT 40 12 33 LONG 075 47 49)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY 11...	1540	3.0	240	20	3.2	1.2	1.5	.5	10	0	8

DATE	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JULY 11...	0	5.2	1.6	.2	.00	.00	.00	.13	.16	.29	.29

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 11...	.01	.00	34	21	13	5	38	6.7	15	3.0	2.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
JULY 11...	.0	8	16	3.1	.4	.3	.0	.0	.0	.0	20

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JULY 11...	0	0	0	0	1	0	0	0	0	3	40

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

DELAWARE RIVER BASIN

401216075464300 HOPEWELL LAKE (LAT 40 12 16 LONG 075 46 43)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JULY											
11...	1230	4.4	140	20	4.0	1.3	2.0	.7	14	0	11

DATE	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JULY											
11...	0	6.3	2.1	.2	.00	.00	.00	.10	.13	.23	.23

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY											
11...	.02	.00	36	28	15	4	46	6.8	5	4.0	2.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)
JULY											
11...	.0	4	9.3	4.2	.0	.0	.0	.0	.0	.0	5

DATE	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JULY											
11...	0	0	0	0	1	0	0	40	0	0	40

01502770 SUSQUEHANNA RIVER NEAR GREAT BEND, PA.

LOCATION.--Lat 41°57'48", long 75°44'33", Susquehanna County, Rt. 11 Bridge north of Hallstead, 0.5 mile (0.8 km) south of Great Bend, 6.2 miles (10.0 km) upstream from gaging station at Conklin, N.Y.

DRAINAGE AREA.--2,086 mi^2 (5,400 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are given for 01503000 Susquehanna River at Conklin, N.Y.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
26...	0900	478	195	7.7	6.5	10.8	2100	350
NOV.								
15...	0845	18200	105	6.8	4.0	11.8	9200	2500
DEC.								
12...	0900	12800	120	7.4	1.5	14.0	5200	650
JAN.								
25...	0830	7380	125	7.2	.0	13.8	4600	1300
FEB.								
22...	0900	1900	182	7.9	1.0	13.4	850	270
MAR.								
29...	0900	4880	138	7.3	8.0	12.4	470	90
APR.								
12...	0900	1130	110	6.9	4.0	13.0	2150	210
MAY								
10...	1000	3140	145	6.6	15.0	11.0	7200	400
JUNE								
21...	0945	1900	172	7.1	20.0	9.2	14200	4400
AUG.								
08...	0830	471	200	7.5	24.0	7.8	9400	900
23...	0945	513	160	7.8	16.0	8.8	6000	670
SEPT.								
09...	1300	576	175	6.7	15.0	10.6	11400	--

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
DEC.										
12...	0900	12800	--	130	43	14	1.8	--	3.7	--
MAR.										
29...	0900	4880	--	43	28	16	2.0	--	8.1	--
JUNE										
21...	0945	1900	2.8	400	40	24	2.7	3.4	--	1.0
AUG.										
08...	0830	471	--	--	--	--	--	--	--	--
23...	0945	513	--	--	--	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
DEC.									
12...	40	0	33	11	3.0	--	.63	--	--
MAR.									
29...	55	--	45	13	3.9	--	.47	--	--
JUNE									
21...	70	0	57	9.5	4.0	.1	--	.59	.01
AUG.									
08...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--

01502770 SUSQUEHANNA RIVER NEAR GREAT BEND, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SUS-PENDED SOLIDS (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
DEC.									
12...	--	.06	.02	.01	--	68	--	42	10
MAR.									
29...	--	.01	.04	.02	--	81	--	48	3
JUNE									
21...	.68	--	.07	--	.02	98	--	71	14
AUG.									
08...	--	--	--	--	--	101	16	--	--
23...	--	--	--	--	--	101	--	--	--

DATE	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.									
12...	--	104	7.2	1.5	10	13	--	4.0	2.5
MAR.									
29...	--	123	8.0	8.0	5	9	--	.9	3.5
JUNE									
21...	.1	157	7.1	20.0	5	15	--	8.9	--
AUG.									
08...	--	200	7.5	24.0	--	--	1.4	--	--
23...	.1	160	7.8	16.0	--	--	.8	--	--

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
SEP.										
20...	220	60	.01	0	14	0	0	0	10	0

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.

LOCATION.--Lat 41°59'04", long 77°09'06", Tioga County, at gaging station, 0.8 mile (1.3 km) downstream from Cook Creek, 1.8 miles (2.9 km) southwest of Lawrenceville, and 2.5 miles (4.0 km) upstream from mouth.

DRAINAGE AREA.--298 mi^2 (772 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1972.
Water temperatures: May 1972 to September 1973.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	18.0	13.0	15.5
20	---	---	---	---	---	---	---	---	---	19.0	15.0	17.0
21	---	---	---	---	---	---	---	---	---	17.5	15.0	16.0
22	---	---	---	---	---	---	---	---	---	20.5	14.5	17.5
23	---	---	---	---	---	---	---	---	---	23.0	17.5	20.0
24	---	---	---	---	---	---	---	---	---	23.5	17.0	20.5
25	---	---	---	---	---	---	---	---	---	24.0	17.5	21.0
26	---	---	---	---	---	---	---	---	---	23.5	18.0	21.0
27	---	---	---	---	---	---	---	---	---	23.0	16.5	19.5
28	---	---	---	---	---	---	---	---	---	24.0	14.0	18.0
29	---	---	---	---	---	---	---	---	---	22.0	11.0	16.5
30	---	---	---	---	---	---	---	---	---	17.5	9.0	14.5
31	---	---	---	---	---	---				19.0	13.5	16.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	16.0	18.5	---	---	---	---	---	---	24.5	18.5	21.5
2	19.0	16.5	18.5	---	---	---	---	---	---	25.5	18.5	21.5
3	20.0	14.0	17.0	---	---	---	---	---	---	20.5	17.5	19.0
4	23.5	14.0	18.0	---	---	---	---	---	---	22.0	15.0	18.5
5	20.5	16.5	17.5	---	---	---	---	---	---	20.5	15.0	18.0
6	17.0	14.5	15.5	---	---	---	---	---	---	22.0	15.0	18.5
7	16.5	13.0	14.5	---	---	---	---	---	---	23.0	16.5	19.5
8	20.5	11.0	15.5	---	---	---	---	---	---	20.5	16.5	19.0
9	17.0	12.5	15.5	---	---	---	---	---	---	22.0	16.5	19.0
10	17.5	8.0	15.5	---	---	---	---	---	---	20.5	13.5	17.0
11	17.5	17.5	17.5	---	---	---	---	---	---	22.0	14.0	17.5
12	17.5	5.0	12.0	---	---	---	---	---	---	23.0	17.5	19.5
13	15.0	9.5	13.0	---	---	---	---	---	---	20.5	17.0	18.5
14	16.0	14.0	15.0	---	---	---	---	---	---	19.5	16.0	18.0
15	17.5	15.5	16.5	---	---	---	---	---	---	20.5	14.5	17.0
16	21.0	16.5	18.5	---	---	---	---	---	---	21.0	13.5	17.0
17	26.0	17.5	20.5	---	---	---	---	---	---	23.0	16.0	19.5
18	19.5	14.0	17.5	---	---	---	---	---	---	19.5	17.5	19.0
19	19.0	12.5	16.5	---	---	---	---	---	---	18.0	14.5	17.0
20	19.0	17.0	18.0	---	---	---	---	---	---	19.5	12.5	15.5
21	21.5	17.5	19.0	---	---	---	---	---	---	19.5	15.0	17.0
22	22.0	18.5	19.5	---	---	---	---	---	---	19.5	15.0	16.5
23	21.0	16.0	18.0	---	---	---	---	---	---	16.0	11.0	13.5
24	16.0	15.0	15.5	---	---	---	27.0	22.0	24.5	15.0	13.0	14.0
25	15.0	14.5	14.5	---	---	---	27.0	23.0	25.0	20.0	13.5	16.5
26	16.0	15.0	15.0	---	---	---	28.0	23.5	25.5	20.5	17.5	19.0
27	16.5	15.5	16.0	---	---	---	25.0	22.5	24.0	18.5	15.5	17.5
28	17.0	16.0	16.5	---	---	---	25.0	21.0	23.0	20.5	14.0	17.5
29	18.0	16.5	17.5	---	---	---	26.0	20.5	23.0	19.0	16.5	17.5
30	18.0	17.5	18.0	---	---	---	26.5	19.5	22.5	17.5	13.5	15.5
31	---	---	---	---	---	---	26.5	18.5	22.5	---	---	---
MONTH	26.0	5.0	16.5	---	---	---	---	---	---	25.5	11.0	18.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	11.5	13.5	8.0	7.5	8.0	---	---	---	---	---	---
2	17.5	12.5	14.5	10.0	8.0	9.0	---	---	---	---	---	---
3	21.5	13.5	17.0	11.0	8.5	10.0	---	---	---	---	---	---
4	21.5	17.0	19.0	9.5	8.5	9.0	---	---	---	---	---	---
5	20.0	17.0	18.5	8.5	8.5	8.5	---	---	---	---	---	---
6	19.0	18.0	18.5	11.0	8.0	9.0	---	---	---	---	---	---
7	18.5	15.5	17.5	10.5	7.0	9.0	---	---	---	---	---	---
8	16.5	13.5	15.0	10.0	9.0	9.5	---	---	---	---	---	---
9	15.0	12.5	13.5	9.0	7.5	8.5	---	---	---	---	---	---
10	12.5	10.0	11.0	7.5	6.5	7.0	---	---	---	---	---	---
11	14.0	10.0	11.5	7.5	6.5	7.0	---	---	---	1.5	1.0	0.0
12	15.5	14.0	14.5	---	---	---	---	---	---	1.0	1.0	0.5
13	15.0	12.5	13.5	---	---	---	---	---	---	0.5	0.0	0.5
14	16.5	11.5	14.0	---	---	---	---	---	---	0.0	0.0	0.0
15	14.5	11.0	11.5	---	---	---	---	---	---	0.5	0.0	0.0
16	11.5	10.5	10.5	---	---	---	---	---	---	0.5	0.0	0.0
17	12.0	10.0	11.0	---	---	---	---	---	---	0.5	0.0	0.0
18	9.5	7.5	8.0	---	---	---	---	---	---	0.5	0.0	0.5
19	7.5	7.0	7.5	---	---	---	---	---	---	0.5	0.0	0.0
20	7.0	5.0	5.0	---	---	---	---	---	---	1.0	0.5	0.5
21	5.0	5.0	5.0	---	---	---	---	---	---	0.5	0.0	0.0
22	5.0	5.0	5.0	---	---	---	---	---	---	1.5	0.5	1.0
23	10.5	5.0	7.0	---	---	---	---	---	---	2.5	1.5	2.0
24	10.5	10.0	10.5	---	---	---	---	---	---	2.5	2.5	2.5
25	10.0	8.5	9.5	---	---	---	---	---	---	2.5	2.0	2.5
26	10.5	6.5	8.5	---	---	---	---	---	---	2.5	2.0	2.5
27	8.5	6.5	7.0	---	---	---	---	---	---	2.5	2.5	2.5
28	11.5	8.0	10.0	---	---	---	---	---	---	2.5	2.5	2.5
29	11.5	11.0	11.5	---	---	---	---	---	---	3.0	2.5	3.0
30	11.0	8.5	9.5	---	---	---	---	---	---	---	---	---
31	8.5	7.5	8.0	---	---	---	---	---	---	---	---	---
MONTH	21.5	5.0	11.5	---	---	---	---	---	---	---	---	---

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.0	1.5	1.5	7.5	7.0	7.5	12.0	11.0	11.0
2	2.0	0.0	0.0	2.0	1.5	1.5	7.0	7.0	7.0	12.0	11.5	12.0
3	2.5	0.0	1.5	2.5	2.0	2.0	7.0	7.0	7.0	12.5	12.0	12.0
4	3.0	2.5	2.5	3.0	2.5	2.5	7.0	7.0	7.0	12.5	11.0	11.5
5	3.0	2.5	3.0	3.5	3.5	3.5	7.0	6.5	6.5	11.5	10.5	10.5
6	3.0	2.5	2.5	4.0	3.5	3.5	6.5	6.5	6.5	12.5	10.5	11.5
7	3.0	2.5	2.5	4.5	4.0	4.0	7.0	6.5	7.0	---	---	---
8	3.0	2.5	3.0	6.0	5.0	5.0	7.0	7.0	7.0	---	---	---
9	3.0	2.0	2.5	6.0	5.5	5.5	7.0	6.5	7.0	13.0	12.5	12.5
10	3.0	0.0	1.5	6.0	6.0	6.0	7.0	7.0	7.0	14.5	13.0	13.5
11	2.0	0.0	1.0	6.0	6.0	6.0	7.0	6.5	7.0	14.5	14.5	14.5
12	1.5	0.0	0.5	6.0	6.0	6.0	7.0	6.5	6.5	15.5	13.0	13.5
13	2.0	0.0	0.5	6.0	6.0	6.0	7.0	6.0	6.5	15.5	12.5	13.0
14	0.0	0.0	0.0	6.0	6.0	6.0	7.5	6.0	7.0	---	---	---
15	0.0	0.0	0.0	6.5	6.0	6.0	9.0	7.0	8.0	---	---	---
16	0.0	0.0	0.0	7.0	6.5	6.5	10.0	8.5	9.0	---	---	---
17	0.0	0.0	0.0	7.5	7.0	7.0	11.0	9.5	10.0	---	---	---
18	0.0	0.0	0.0	6.5	5.5	5.5	11.0	10.5	11.0	---	---	---
19	0.0	0.0	0.0	4.5	4.0	4.0	11.5	11.0	11.0	---	---	---
20	0.0	0.0	0.0	3.5	3.5	3.5	12.5	11.0	12.0	---	---	---
21	0.0	0.0	0.0	3.5	3.5	3.5	13.0	12.5	12.5	12.0	11.0	11.5
22	0.0	0.0	0.0	3.5	3.5	3.5	13.0	12.5	13.0	12.5	11.0	11.5
23	0.0	0.0	0.0	4.5	3.5	4.0	13.0	12.5	13.0	13.0	12.5	12.5
24	0.0	0.0	0.0	5.0	4.0	4.5	12.5	11.5	12.0	12.0	11.5	12.0
25	0.0	0.0	0.0	5.5	5.0	5.0	12.5	11.5	12.0	12.5	12.0	12.0
26	0.0	0.0	0.0	5.5	5.0	5.5	11.5	11.0	11.0	12.5	12.5	12.5
27	0.0	0.0	0.0	6.0	5.0	5.5	11.0	10.0	10.5	12.5	12.0	12.0
28	1.5	0.0	0.5	6.5	5.0	6.0	10.5	9.5	10.0	13.5	12.0	12.5
29	---	---	---	6.5	6.5	6.5	10.5	9.5	9.5	14.0	13.0	13.5
30	---	---	---	7.0	6.5	7.0	11.0	9.5	10.5	14.5	13.5	14.0
31	---	---	---	7.5	6.5	7.0	---	---	---	14.5	14.5	14.5
MONTH	3.0	0.0	1.0	7.5	1.5	5.0	13.0	6.0	9.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.0	14.5	---	---	---	---	---	---	---	---	---
2	16.5	15.0	15.5	---	---	---	---	---	---	---	---	---
3	16.5	16.0	16.5	---	---	---	---	---	---	---	---	---
4	17.5	16.0	16.5	---	---	---	---	---	---	---	---	---
5	19.0	16.5	17.5	---	---	---	---	---	---	26.0	24.0	25.0
6	19.5	18.5	19.0	---	---	---	---	---	---	25.0	21.0	23.0
7	20.5	19.0	19.5	---	---	---	---	---	---	21.5	20.0	21.5
8	20.5	18.5	19.5	---	---	---	---	---	---	21.5	18.0	20.0
9	---	---	---	---	---	---	---	---	---	21.0	17.5	19.0
10	---	---	---	---	---	---	---	---	---	20.0	16.0	18.5
11	---	---	---	---	---	---	---	---	---	18.5	17.0	18.0
12	---	---	---	---	---	---	---	---	---	18.5	16.0	17.5
13	---	---	---	---	---	---	---	---	---	18.5	16.0	17.0
14	---	---	---	---	---	---	---	---	---	17.5	16.5	17.5
15	---	---	---	---	---	---	---	---	---	19.5	16.5	18.0
16	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
17	---	---	---	---	---	---	---	---	---	17.5	14.5	16.0
18	---	---	---	---	---	---	---	---	---	17.0	14.0	16.0
19	---	---	---	---	---	---	---	---	---	16.5	13.0	14.5
20	---	---	---	---	---	---	---	---	---	16.0	14.0	15.0
21	---	---	---	---	---	---	---	---	---	16.0	12.5	14.0
22	---	---	---	---	---	---	---	---	---	16.5	13.5	14.5
23	---	---	---	---	---	---	---	---	---	16.5	15.0	15.5
24	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
25	---	---	---	---	---	---	---	---	---	16.0	15.5	15.5
26	---	---	---	---	---	---	---	---	---	16.0	15.5	15.5
27	---	---	---	---	---	---	---	---	---	17.5	14.5	16.0
28	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
29	---	---	---	---	---	---	---	---	---	18.0	17.0	17.5
30	---	---	---	---	---	---	---	---	---	16.5	14.5	15.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	26.0	12.5	17.5

01537700 SUSQUEHANNA RIVER NEAR HUNLOCK CREEK, PA.

LOCATION.--Lat 41°11'19", long 76°05'13", Luzerne County, at bridge to St. Hospital, Retreat, 1.6 miles (2.6 km) southwest of Hunlock Creek.

DRAINAGE AREA.--10,140 mi^2 (26,300 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network. Records of discharge are given for 01536500 Susquehanna River at Wilkes-Barre.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)
DEC.										
11...	1530	67300	--	--	2270	390	16	4.3	--	6.4
MAR.										
28...	1530	22900	--	--	1100	280	18	5.3	--	14
JUNE										
20...	1700	6720	2.3	--	130	720	33	9.8	8.3	--
AUG.										
07...	1630	3340	--	4500	--	--	--	--	--	--
22...	1530	4260	--	--	--	--	--	--	--	--
SEP.										
19...	1530	4800	--	4200	--	--	--	--	--	--

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
DEC.										
11...	--	33	0	27	32	6.0	--	.70	--	--
MAR.										
28...	--	50	--	41	40	9.0	--	.66	--	--
JUNE										
20...	1.6	59	0	48	--	10	.1	--	.89	.00
AUG.										
07...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
SEP.										
19...	--	55	--	45	85	--	.1	.80	--	--

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
DEC.									
11...	--	.10	.07	.05	--	102	--	58	31
MAR.									
28...	--	.13	.09	.06	--	121	--	67	26
JUNE									
20...	.90	--	.15	--	.02	206	--	123	74
AUG.									
07...	--	--	--	--	--	226	30	--	--
22...	--	--	--	--	--	282	20	--	--
SEP.									
19...	--	.19	.15	.07	--	243	30	134	89

01537700 SUSQUEHANNA RIVER AT HUNLOCK CREEK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.									
11...	--	147	6.8	2.5	25	52	--	8.4	3.5
MAR.									
28...	--	182	7.8	11.0	20	16	--	1.3	4.0
JUNE									
20...	.2	--	7.6	23.0	5	25	--	15	--
AUG.									
07...	--	445	6.5	27.0	--	--	2.6	--	--
22...	--	390	7.1	22.5	--	--	2.0	--	--
SEP.									
19...	.1	340	6.4	18.0	--	15	2.4	35	10

DATE	TIME	TOTAL MAN-GANESE (MN) (UG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
SEP.									
19...	1530	1000	.62	.81	10	13	.01	0	1

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP.									
19...	0	10	0	<2.4	1.6	6.3	1.0	5.0	.9

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.								
25...	1415	1910	520	7.3	10.5	9.4	14800	2100
NOV.								
14...	1500	38700	155	6.8	7.5	--	16000	660
DEC.								
11...	1530	67300	165	6.8	2.5	12.6	4600	2000
JAN.								
24...	1400	27000	205	7.7	4.0	12.8	9800	1330
FEB.								
21...	1330	7650	362	7.0	3.0	12.2	17000	730
MAR.								
28...	1530	22900	200	6.9	11.0	11.6	26000	700
APR.								
11...	1430	43400	170	6.8	7.0	11.8	2750	670
MAY								
09...	1400	10400	260	6.6	16.0	10.6	110000	7300
JUNE								
20...	1700	6720	310	6.8	23.0	10.4	74000	11000
AUG.								
07...	1630	3340	445	6.5	27.0	12.4	78000	14000
22...	1530	4260	390	7.1	22.5	9.8	48000	4500
SEP.								
19...	1530	4800	340	6.4	18.0	10.4	100000	--

SUSQUEHANNA RIVER BASIN

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.

LOCATION.--Lat 41°01'53", long 76°25'13", Columbia County, on right bank at upstream end of culvert on State Highway 487 at Light Street.

DRAINAGE AREA.--1.72 mi^2 (4.45 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.
Sediment records: October 1971 to September 1973.

EXTREMES.--1971-72:
Turbidity: Maximum daily, 5,400 JTU June 22; minimum daily, 2 JTU on many days.
1972-73:
Turbidity: Maximum daily, 2,900 JTU Mar. 17; minimum daily, 2 JTU on many days.
Period of record:
Turbidity: Maximum daily, 5,400 JTU June 22, 1972; minimum daily, 2 JTU on many days.

REMARKS.--Sediment data for this station on page 361. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
AUG.									
08...	1425	.28	6.2	80	70	26	4.1	3.6	2.1

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
AUG.									
08...	72	0	59	9.0	8.2	.2	2.1	.00	2.1

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
AUG.									
08...	.02	119	104	62	23	179	7.2	8	7.3

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	3	8	5	5	230	5	7	160	4	5	5
2	2	25	6	20	5	500	6	7	85	4	5	4
3	2	2	5	7	70	1100	5	65	25	15	2200	5
4	2	2	4	4	15	25	3	490	8	5	25	3
5	3	2	3	8	8	15	3	20	6	25	8	3
6	4	2	110	5	6	10	2	7	5	6	6	3
7	3	10	40	3	6	15	10	6	5	5	2400	3
8	2	3	20	3	6	25	7	6	6	4	25	4
9	2	3	15	5	5	10	5	60	8	8	10	4
10	50	2	10	15	4	7	4	30	8	10	6	3
11	6	3	6	35	5	7	4	7	7	4	4	3
12	5	3	5	20	5	320	4	4	6	4	5	3
13	4	3	5	40	290	10	40	4	5	4	3	10
14	4	2	15	30	45	10	10	4	5	4	3	3
15	3	10	5	6	10	110	30	60	5	15	3	3
16	3	5	5	10	7	420	1100	10	20	250	3	3
17	2	3	8	7	4	60	95	6	10	30	6	3
18	2	2	8	4	4	15	25	6	130	20	5	3
19	2	5	8	5	8	10	10	5	15	15	4	6
20	2	2	6	8	7	10	140	5	15	10	3	4
21	2	2	5	5	5	15	15	4	210	8	4	7
22	3	2	6	4	5	270	10	4	5400	5	4	3
23	3	2	3	10	5	25	10	4	85	7	3	3
24	5	5	3	60	4	15	9	4	8	9	3	6
25	20	15	3	40	3	6	6	3	20	15	4	5
26	10	4	3	8	15	6	5	3	8	7	7	2
27	3	6	3	5	10	10	6	3	7	5	10	3
28	2	10	3	4	10	9	5	3	6	4	5	3
29	2	250	3	5	160	8	5	2	6	5	4	3
30	2	20	15	5	---	5	5	370	8	5	3	15
31	2	---	10	5	---	3	---	340	---	5	10	---

TURBIDITY (JTU) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2	3	6	50	10	10	330	3	4	15	40	4
2	2	8	6	10	1000	15	20	3	4	10	20	6
3	2	20	15	8	45	55	8	30	4	15	15	15
4	3	10	15	25	20	20	900	3	25	8	8	10
5	3	10	35	7	15	20	25	3	10	360	4	3
6	220	7	750	6	15	15	10	2	210	8	4	850
7	110	6	20	6	8	10	10	2	110	7	150	10
8	10	250	130	7	50	130	50	2	6	7	10	8
9	5	20	75	7	15	20	10	15	4	6	6	9
10	3	8	45	7	10	15	220	460	4	5	320	10
11	3	7	10	10	10	10	7	10	4	4	35	6
12	3	6	8	10	10	7	6	20	200	4	1800	8
13	2	6	15	15	8	10	5	3	270	15	20	6
14	2	240	8	15	7	8	4	3	7	4	10	450
15	3	20	25	15	10	80	4	3	6	10	8	10
16	3	6	15	10	10	10	15	3	5	6	6	8
17	2	5	8	10	10	2900	8	25	4	5	6	6
18	2	5	8	10	15	25	6	8	20	6	7	460
19	2	170	8	25	15	20	10	2	3	10	7	10
20	3	80	15	15	10	15	8	85	3	10	8	10
21	3	8	120	20	10	10	6	15	8	200	6	8
22	3	7	140	1500	8	15	6	10	7	15	5	850
23	4	8	15	25	7	20	60	15	6	10	4	420
24	3	8	10	20	8	15	8	5	5	8	4	20
25	2	7	8	15	8	20	15	4	4	6	4	10
26	3	130	100	15	10	20	10	4	4	110	4	8
27	3	8	8	750	10	8	80	4	4	8	5	8
28	6	20	7	25	10	6	7	95	1400	45	6	7
29	4	8	7	30	---	5	5	25	600	20	7	250
30	3	6	7	15	---	10	3	5	500	8	6	5
31	3	---	180	10	---	10	---	4	---	5	5	---

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.

LOCATION.--Lat 41°01'55", long 76°25'39", Columbia County, on left bank at upstream end of culvert on Papermill Road at Light Street.

DRAINAGE AREA.--1.99 mi^2 (5.15 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.
Sediment records: October 1971 to September 1973.

EXTREMES.--1971-72:
Turbidity: Maximum daily, 4,200 JTU May 30; minimum daily, 2 JTU on several days.
1972-73:
Turbidity: Maximum daily, 4,700 JTU Mar. 17; minimum daily, 2 JTU on several days.

Period of record:
Turbidity: Maximum daily, 4,700 JTU Mar. 17, 1973; minimum daily, 2 JTU on many days.

REMARKS.--Sediment data for this station on page 366. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
AUG.									
08...	1500	.42	5.6	70	70	34	5.3	13	2.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
AUG.									
08...	88	0	72	10	28	.2	2.1	.00	2.1

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
AUG.									
08...	.03	172	152	107	35	282	7.3	5	7.1

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.--Continued

TURBIDITY (JTU) , WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10	8	4	10	380	5	6	120	4	15	5
2	---	100	6	20	10	600	4	4	200	4	10	5
3	---	10	5	9	80	950	3	65	15	20	2200	4
4	---	6	4	5	20	25	2	490	8	5	50	5
5	---	8	7	10	15	15	2	25	5	35	10	4
6	---	5	270	4	15	10	2	6	6	6	6	3
7	---	10	170	4	8	15	7	6	4	3	1200	3
8	---	5	25	4	15	20	5	6	4	3	30	4
9	---	10	20	7	10	15	4	110	4	15	15	5
10	---	8	15	8	10	8	4	85	8	10	7	3
11	---	6	7	50	10	10	4	6	3	3	6	4
12	---	3	6	20	10	180	3	4	3	3	10	4
13	---	2	6	230	480	15	50	3	4	5	7	100
14	---	2	10	120	60	10	6	4	6	3	5	5
15	---	110	8	7	20	130	60	120	6	25	4	5
16	---	6	6	10	15	1000	950	15	50	270	3	5
17	---	9	4	20	5	65	110	5	5	10	9	5
18	---	8	4	25	5	15	20	5	450	10	5	6
19	---	15	4	10	8	10	8	4	20	8	4	40
20	---	15	4	85	10	10	290	3	5	6	3	15
21	---	10	4	15	15	10	10	3	320	7	4	40
22	5	10	4	7	8	370	10	3	2300	7	5	20
23	6	6	3	35	6	25	6	3	160	6	5	5
24	25	4	3	270	6	8	8	3	10	6	4	45
25	50	20	3	75	5	5	6	2	25	30	4	6
26	10	6	3	10	25	4	5	2	10	20	10	10
27	8	8	3	8	35	3	4	2	5	6	40	8
28	10	40	3	6	10	4	4	2	5	15	5	10
29	15	430	3	10	400	6	5	2	6	20	20	3
30	7	50	15	10	---	4	5	4200	6	25	5	50
31	5	---	7	10	---	3	---	---	---	20	5	---

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4	15	10	35	10	20	240	2	3	10	230	5
2	6	25	15	8	3500	10	15	2	3	10	25	5
3	5	110	10	6	80	80	10	60	3	20	15	30
4	5	10	20	160	30	20	500	2	1100	6	8	15
5	5	10	55	7	15	15	15	2	15	1400	10	5
6	55	15	800	5	15	10	8	2	550	5	10	2100
7	110	30	30	6	10	9	8	2	100	4	170	15
8	6	500	150	7	55	95	55	2	15	4	25	3
9	8	35	100	10	20	20	7	60	5	3	15	3
10	15	10	60	9	35	10	220	1000	3	2	500	4
11	10	20	8	8	30	10	6	15	3	2	75	5
12	15	20	6	8	15	8	5	55	1200	2	1800	6
13	10	20	20	15	15	7	4	3	370	20	30	6
14	10	300	6	10	8	8	6	2	10	4	10	950
15	10	30	45	10	15	85	6	4	10	35	10	15
16	8	15	15	10	10	10	7	3	9	4	10	6
17	10	9	8	10	25	4700	8	30	8	3	10	5
18	8	9	8	10	20	10	4	10	130	3	8	650
19	4	350	8	160	10	8	4	2	7	4	10	10
20	10	100	25	15	20	8	5	150	6	4	10	5
21	15	10	290	20	10	8	4	25	10	310	4	4
22	20	15	850	900	8	10	2	7	10	20	4	1400
23	25	10	15	25	10	10	70	15	8	8	3	550
24	10	10	10	20	10	10	7	6	7	8	3	10
25	7	6	6	20	8	25	40	5	6	7	4	10
26	10	250	140	15	7	45	20	4	5	390	4	4
27	10	10	8	500	8	4	130	3	5	10	3	4
28	170	25	7	30	10	5	10	170	3200	30	4	4
29	20	8	6	35	---	3	3	30	1900	35	4	1400
30	10	10	6	35	---	10	2	4	1800	8	5	8
31	15	---	190	15	---	10	---	3	---	10	5	---

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.

LOCATION.--Lat 40°57'29", long 76°37'10", Montour County, at gaging station at Mill Street Bridge on State Highway 54 at Danville, 0.8 mile (1.3 km) upstream from Mahoning Creek.

DRAINAGE AREA.--11,200 mi^2 (29,000 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1945 to June 1953, October 1956 to June 1973 (discontinued). Water temperatures: October 1945 to June 1953, October 1956 to September 1970.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Miscellaneous samples of sediment data published for water years 1962, 1964, 1966.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.										
01...	1900	2500	1.1	--	--	42	14	16	--	2.3
NOV.										
02...	1700	4310	4.9	--	--	39	15	8.2	--	2.1
DEC.										
01...	1800	32100	2.1	--	--	54	18	19	--	2.5
11...	1330	68200	--	450	408	14	3.9	--	7.6	--
MAR.										
28...	1230	24900	--	720	270	17	4.8	--	14	--
JUNE										
20...	1445	7900	2.4	--	--	31	8.6	7.5	--	1.7

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
OCT.									
01...	66	0	54	120	21	.3	--	1.2	.00
NOV.									
02...	6	0	0	160	8.6	.2	--	.10	.00
DEC.									
01...	62	0	51	150	23	.2	--	.90	.00
11...	29	0	24	31	6.2	--	.75	--	--
MAR.									
28...	46	--	38	39	8.3	--	.75	--	--
JUNE									
20...	50	0	41	71	9.0	.2	--	.80	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.									
01...	1.2	--	--	--	.02	259	255	--	163
NOV.									
02...	.10	--	--	--	.00	295	239	--	159
DEC.									
01...	.90	--	--	--	.01	346	303	--	209
11...	--	.11	.07	.07	--	96	--	106	51
MAR.									
28...	--	.16	.08	.04	--	116	--	25	62
JUNE									
20...	--	--	--	--	.01	180	160	--	110

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 01...	108	--	400	8.3	15.0	3	--	1.0	--
NOV. 02...	159	.6	477	8.3	10.0	0	--	.0	--
DEC. 01...	158	--	518	8.0	--	0	--	1.0	--
11...	27	--	139	7.1	2.5	20	62	3.7	4.0
MAR. 28...	24	--	176	7.7	9.5	12	13	1.5	4.0
JUNE 20...	72	.1	285	7.1	23.0	3	15	4.0	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 25...	1045	2500	465	7.5	10.0	10.6	1500	150
NOV. 14...	1300	33000	160	6.9	7.5	10.2	6600	4000
DEC. 11...	1330	68200	140	6.8	2.5	13.0	1600	1500
JAN. 24...	1130	23940	240	7.7	1.0	--	4300	1400
FEB. 21...	1030	7880	358	6.9	2.5	13.0	580	E100
MAR. 28...	1230	24900	192	6.9	9.5	12.0	10400	670
APR. 11...	1200	50400	158	6.6	7.0	12.0	12000	800
MAY 09...	1200	12700	242	6.7	15.0	11.2	42000	2300
JUNE 20...	1445	7900	285	7.1	23.0	11.2	38000	3600

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.

LOCATION.--Lat 41°19'28", long 77°45'03", Clinton County, 0.2 mile (0.3 km) downstream from gaging station at Twelfth Street at Renovo, 0.8 mile (1.3 km) upstream from Paddy Run. Automatic recorder located on right bank at Eighth Street at Renovo directly across from gaging station, 1 mile (1.6 km) upstream from Paddy Run.

DRAINAGE AREA.--2,975 mi^2 (7,700 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1967 to September 1973.
Water temperatures: October 1968 to September 1973.

EXTREMES.

Period of record:
Specific conductance (1968-73): Maximum, 973 micromhos Oct. 3, 1968; minimum, 116 micromhos Feb. 3, 1973.
pH (1968-73): Maximum, 6.4 Sept. 30, 1971; minimum, 2.2 Sept. 23, 24, 1969.
Water temperatures: Maximum, 31.0°C June 27-30 and July 16, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--March 8, 1972 sample collected at 01545500 West Branch Susquehanna River at Renovo erroneously reported under 01545600 Young Womans Creek near Renovo.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT. 19...	1500	586	6.7	--	--	--	540	--	3300	45
NOV. 22...	1300	6030	6.2	--	1700	--	660	--	1500	21
JAN. 04...	2230	6160	6.8	--	--	420	--	2000	--	21
FEB. 15...	1430	4300	6.5	2300	--	410	--	1700	--	21
MAR. 23...	1515	8900	4.6	1700	--	--	450	--	1400	17
MAY 02...	0800	9200	5.8	700	--	--	120	--	840	16
JUNE 15...	1000	5100	6.0	--	--	650	--	1500	--	22
JULY 27...	1615	3420	6.6	--	2300	250	--	2600	--	29
SEP. 06...	1215	1160	5.9	2600	--	320	--	3300	--	32

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT. 19...	18	7.7	2.5	--	--	--	--	210	8.0	.1
NOV. 22...	8.9	4.2	1.5	--	--	--	--	98	7.7	.2
JAN. 04...	11	3.5	1.2	--	--	--	--	120	4.0	.4
FEB. 15...	9.8	3.7	1.3	0	0	0	0	100	5.8	.2
MAR. 23...	7.8	3.5	1.2	0	0	0	0	80	4.7	.1
MAY 02...	6.5	3.7	1.3	1	0	1	0	67	5.1	.2
JUNE 15...	9.6	4.6	1.7	0	0	0	0	94	4.5	.1
JULY 27...	13	4.7	1.5	0	0	0	0	140	4.5	.3
SEP. 06...	16	5.5	1.9	0	0	0	--	160	6.7	.3

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 19...	.40	--	--	--	--	--	--	.00	--	331
NOV. 22...	.50	--	--	--	--	--	--	.00	--	160
JAN. 04...	.40	--	--	--	--	--	--	--	--	183
FEB. 15...	--	.30	--	.00	.30	--	--	--	.00	176
MAR. 23...	--	.40	--	.00	.40	--	--	--	.00	131
MAY 02...	--	.58	--	.02	.60	--	--	--	.00	121
JUNE 15...	--	.20	--	.00	.20	--	.40	--	--	201
JULY 27...	--	.30	--	.00	.30	.30	--	--	--	268
SEP. 06...	.27	--	.00	--	.27	--	--	--	--	280

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
OCT. 19...	--	190	--	35	.7	544	3.6	8.0	0	--
NOV. 22...	--	89	--	15	.3	261	4.5	4.2	0	--
JAN. 04...	170	98	98	25	.5	312	3.8	3.2	0	--
FEB. 15...	150	93	93	20	.4	292	4.1	.6	0	.0
MAR. 23...	123	75	75	14	.3	230	4.3	6.0	0	.0
MAY 02...	109	67	66	--	--	193	4.7	12.0	0	32
JUNE 15...	146	94	94	14	.3	292	4.1	19.5	0	.0
JULY 27...	206	126	126	23	.4	378	3.9	25.3	3	.0
SEP. 06...	233	150	150	36	.7	430	3.8	25.0	2	.0

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	318	309	315
2	---	---	---	---	---	---	---	---	---	316	304	310
3	---	---	---	545	297	438	---	---	---	319	308	314
4	---	---	---	324	293	306	---	---	---	321	295	308
5	---	---	---	394	324	365	---	---	---	355	315	330
6	---	---	---	389	375	381	---	---	---	357	332	343
7	---	---	---	391	375	385	---	---	---	332	309	319
8	---	---	---	390	329	358	---	---	---	---	---	---
9	---	---	---	345	295	311	241	195	221	---	---	---
10	---	---	---	360	340	352	255	241	250	---	---	---
11	---	---	---	352	271	304	262	254	257	---	---	---
12	---	---	---	270	251	260	271	261	265	---	---	---
13	---	---	---	255	249	253	290	270	278	---	---	---
14	---	---	---	253	169	216	303	288	296	---	---	---
15	---	---	---	215	173	197	308	242	270	---	---	---
16	---	---	---	205	182	192	268	243	253	---	---	---
17	---	---	---	190	181	184	279	267	274	---	---	---
18	---	---	---	190	182	186	280	272	277	410	392	404
19	---	---	---	202	190	197	303	278	290	418	408	414
20	---	---	---	235	198	214	316	292	304	424	410	417
21	---	---	---	---	---	---	338	312	325	453	416	435
22	---	---	---	---	---	---	333	224	275	451	351	405
23	---	---	---	261	253	257	225	175	194	383	338	355
24	---	---	---	268	254	260	179	171	174	378	355	366
25	---	---	---	273	263	267	193	179	186	358	318	328
26	---	---	---	---	---	---	212	192	201	322	310	317
27	---	---	---	---	---	---	231	211	221	319	307	312
28	---	---	---	---	---	---	251	232	241	331	307	317
29	---	---	---	---	---	---	282	257	270	324	273	300
30	---	---	---	226	214	220	301	282	292	282	242	256
31	---	---	---	---	---	---	314	299	307	246	226	237
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	246	226	233	---	---	---	303	281	292	181	176	179
2	252	138	205	---	---	---	299	282	287	198	179	187
3	141	116	127	---	---	---	294	256	279	216	197	207
4	---	---	---	---	---	---	267	224	241	231	215	223
5	---	---	---	---	---	---	226	205	217	242	230	237
6	---	---	---	---	---	---	211	197	204	245	240	243
7	---	---	---	---	---	---	218	196	201	256	243	251
8	---	---	---	---	---	---	216	208	211	258	253	256
9	252	228	243	---	---	---	212	209	210	263	236	246
10	---	---	---	---	---	---	214	209	211	281	251	270
11	---	---	---	---	---	---	220	211	216	250	212	225
12	---	---	---	---	---	---	223	215	219	212	192	202
13	---	---	---	---	---	---	222	214	219	192	183	18
14	---	---	---	---	---	---	230	220	227	191	188	18
15	---	---	---	---	---	---	239	229	235	201	187	19
16	---	---	---	---	---	---	254	235	245	213	199	20
17	---	---	---	---	---	---	254	249	252	214	209	21
18	---	---	---	---	---	---	272	251	262	232	214	22
19	---	---	---	---	---	---	286	273	281	235	231	23
20	---	---	---	---	---	---	292	283	288	235	225	23
21	---	---	---	---	---	---	287	280	282	238	227	23
22	---	---	---	---	---	---	289	283	286	248	235	24
23	---	---	---	---	---	---	291	283	286	244	235	23
24	---	---	---	246	233	240	306	283	295	243	231	23
25	---	---	---	260	246	253	327	305	316	270	234	24
26	---	---	---	269	257	261	309	293	302	271	250	264
27	---	---	---	279	268	274	304	278	296	251	227	231
28	---	---	---	277	274	276	277	240	257	231	224	228
29	---	---	---	282	274	277	240	191	216	236	224	230
30	---	---	---	281	271	275	191	181	186	236	219	228
31	---	---	---	297	277	288	---	---	---	220	205	212
MONTH	---	---	---	---	---	---	327	181	251	281	176	226

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	224	216	220	308	289	294	---	---	---	444	416	427
2	231	222	227	313	293	302	420	388	402	454	434	444
3	240	230	235	327	313	318	436	418	427	466	440	455
4	246	228	239	335	315	325	451	433	439	461	437	450
5	248	229	237	366	332	355	457	438	449	488	463	475
6	246	229	237	364	354	360	467	450	460	491	454	481
7	248	220	233	380	352	368	480	467	476	445	381	390
8	266	212	249	395	379	386	497	474	488	455	396	426
9	217	199	206	403	390	395	490	456	478	483	455	468
10	237	217	229	413	403	408	514	472	492	484	450	464
11	258	242	253	427	412	419	---	---	---	462	439	455
12	266	254	261	445	420	432	---	---	---	462	449	455
13	285	249	270	466	431	457	---	---	---	---	---	---
14	313	263	293	470	450	463	---	---	---	---	---	---
15	299	286	289	468	383	425	---	---	---	---	---	---
16	293	283	289	432	347	397	---	---	---	---	---	---
17	322	289	306	481	435	462	394	373	386	---	---	---
18	333	321	328	480	442	458	373	286	337	---	---	---
19	344	330	338	444	422	434	320	242	265	---	---	---
20	347	338	343	450	431	440	305	257	286	---	---	---
21	356	301	332	435	377	401	323	280	300	484	407	451
22	340	319	329	503	380	438	---	---	---	521	483	505
23	353	305	335	458	354	385	---	---	---	524	477	510
24	305	284	291	359	344	351	---	---	---	556	523	538
25	296	288	291	359	341	350	---	---	---	642	544	593
26	307	295	300	387	353	374	316	289	298	646	559	610
27	329	308	317	---	---	---	327	314	318	557	517	535
28	335	310	330	---	---	---	353	327	340	522	505	515
29	359	307	324	---	---	---	378	353	363	509	487	500
30	381	308	349	---	---	---	400	388	394	504	461	485
31	---	---	---	---	---	---	423	398	407	---	---	---
MONTH	381	199	283	503	289	392	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.0	6.0	6.5
2	---	---	---	---	---	---	---	---	---	6.0	4.5	5.0
3	---	---	---	10.0	9.0	9.5	---	---	---	4.5	2.5	3.5
4	---	---	---	9.5	9.0	9.0	---	---	---	3.0	2.5	2.5
5	---	---	---	9.0	8.5	9.0	---	---	---	3.5	3.0	3.5
6	---	---	---	10.0	8.5	9.0	---	---	---	3.5	1.5	2.5
7	---	---	---	9.5	8.0	9.0	---	---	---	---	---	---
8	---	---	---	9.5	9.0	9.5	---	---	---	---	---	---
9	---	---	---	9.5	8.5	9.0	5.5	4.5	5.0	---	---	---
10	---	---	---	9.5	8.5	9.0	6.0	5.5	5.5	---	---	---
11	---	---	---	9.0	8.5	8.5	6.0	5.0	5.5	---	---	---
12	---	---	---	9.0	8.5	8.5	5.0	4.5	5.0	---	---	---
13	---	---	---	9.0	8.5	8.5	5.0	4.5	5.0	---	---	---
14	---	---	---	8.5	8.0	8.5	5.5	5.0	5.0	---	---	---
15	---	---	---	8.5	7.0	7.5	5.0	4.0	4.5	---	---	---
16	---	---	---	7.0	6.5	6.5	4.0	2.5	3.0	---	---	---
17	---	---	---	6.5	6.0	6.0	2.5	0.5	1.5	---	---	---
18	---	---	---	6.0	5.5	5.5	1.0	0.5	1.0	3.5	2.5	3.0
19	---	---	---	5.5	5.0	5.0	2.5	1.0	1.5	3.0	2.5	2.5
20	---	---	---	5.0	4.5	4.5	4.0	2.5	3.0	3.0	1.5	2.5
21	---	---	---	---	---	0.0	4.5	3.5	4.0	2.0	0.5	1.5
22	---	---	---	---	---	---	5.5	4.5	5.0	2.5	1.5	2.0
23	---	---	---	3.5	3.0	3.5	6.5	5.0	6.0	2.5	1.5	2.0
24	---	---	---	4.0	3.0	3.5	7.0	6.5	6.5	3.0	2.5	3.0
25	---	---	---	3.5	3.0	3.5	7.0	7.0	7.0	2.5	2.0	2.0
26	---	---	---	---	---	---	7.0	6.5	7.0	3.0	2.0	2.5
27	---	---	---	---	---	---	7.0	5.5	6.0	3.0	2.5	3.0
28	---	---	---	---	---	---	6.0	5.0	5.5	3.5	3.0	3.5
29	---	---	---	---	---	---	5.0	4.5	4.5	3.5	2.0	3.0
30	---	---	---	4.0	3.0	3.5	5.0	4.0	4.5	2.0	0.5	1.0
31	---	---	---	---	---	---	7.0	5.0	5.5	1.0	0.5	1.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.0	1.5	---	---	---	10.0	9.5	9.5	13.5	12.5	12.5
2	3.5	2.0	2.5	---	---	---	10.0	9.5	10.0	13.5	12.5	13.0
3	4.0	3.0	3.5	---	---	---	10.0	9.5	10.0	14.0	13.0	13.5
4	---	---	---	---	---	---	10.0	9.0	9.5	13.0	11.5	12.5
5	---	---	---	---	---	---	9.5	8.5	9.0	12.5	11.0	11.5
6	---	---	---	---	---	---	9.0	7.5	8.5	13.5	11.0	12.5
7	---	---	---	---	---	---	9.0	7.5	8.5	14.5	12.5	13.5
8	---	---	---	---	---	---	9.0	8.0	8.5	15.0	14.5	14.5
9	4.0	2.5	3.0	---	---	---	8.5	7.5	8.0	15.0	14.0	14.5
10	---	---	---	---	---	---	8.5	7.5	8.0	15.0	14.5	15.0
11	---	---	---	---	---	---	7.5	7.0	7.0	15.0	14.0	14.5
12	---	---	---	---	---	---	8.0	7.0	7.5	14.0	13.5	14.0
13	---	---	---	---	---	---	8.0	7.0	7.5	13.5	13.0	13.0
14	---	---	---	---	---	---	9.0	7.0	8.0	13.0	12.0	12.5
15	---	---	---	---	---	---	9.5	8.0	8.5	13.5	12.5	13.0
16	---	---	---	---	---	---	11.5	9.0	10.5	14.5	12.0	13.5
17	---	---	---	---	---	---	12.0	11.0	11.5	14.0	12.5	13.5
18	---	---	---	---	---	---	13.5	11.5	12.5	13.0	11.5	12.0
19	---	---	---	---	---	---	13.5	13.0	13.0	13.5	11.0	12.5
20	---	---	---	---	---	---	14.5	12.5	13.5	12.5	12.0	12.5
21	---	---	---	---	---	---	15.5	13.5	14.5	13.5	12.5	13.0
22	---	---	---	---	---	---	16.0	14.0	15.5	14.5	12.0	13.5
23	---	---	---	---	---	---	16.5	15.5	16.5	14.5	14.0	14.5
24	---	---	---	7.5	5.0	6.5	16.5	15.5	16.0	14.5	14.0	14.5
25	---	---	---	7.0	6.5	6.5	15.5	14.0	14.5	14.5	13.5	14.0
26	---	---	---	7.5	6.5	7.0	14.0	13.0	13.5	14.0	13.5	14.0
27	---	---	---	9.0	7.0	8.0	13.0	12.5	12.5	13.5	13.0	13.5
28	---	---	---	9.5	7.5	8.5	12.5	12.0	12.0	14.0	13.0	13.5
29	---	---	---	10.0	8.5	9.0	12.0	11.0	11.5	15.0	14.0	14.5
30	---	---	---	9.5	9.0	9.0	12.5	11.5	12.0	16.5	15.0	15.5
31	---	---	---	9.5	9.0	9.0	---	---	---	16.0	15.5	15.5
MONTH	---	---	---	---	---	---	16.5	7.0	11.0	16.5	11.0	13.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.5	25.0	23.0	24.0	---	---	---	---	---	---
2	17.5	15.5	16.5	25.0	23.0	24.5	25.5	23.5	25.0	---	---	---
3	18.0	16.5	17.0	25.0	24.0	24.5	26.0	23.5	25.0	---	---	---
4	19.0	17.0	18.0	26.5	23.5	25.0	26.5	24.5	25.5	---	---	---
5	20.0	18.0	19.0	26.0	24.0	25.5	26.5	24.0	25.5	---	---	---
6	20.5	18.5	20.0	26.5	24.0	25.0	26.5	24.5	25.5	---	---	---
7	20.5	19.0	19.5	27.0	24.5	25.5	26.5	25.0	26.0	23.5	21.0	22.5
8	20.5	18.5	20.0	28.0	24.0	26.5	27.0	25.5	26.0	22.5	20.0	21.5
9	20.5	19.0	20.0	28.0	26.0	27.0	27.5	25.5	26.5	21.0	18.5	20.0
10	22.0	18.5	20.5	27.5	25.5	26.5	27.0	26.0	26.5	21.0	17.0	19.5
11	22.5	20.0	21.5	27.5	24.0	26.0	---	---	---	19.5	17.5	18.5
12	22.0	21.0	21.5	25.0	23.0	24.0	---	---	---	---	---	---
13	21.5	20.5	21.0	25.0	22.0	23.5	---	---	---	---	---	---
14	21.5	18.5	20.5	27.0	24.0	25.0	---	---	---	18.5	17.0	17.5
15	21.5	19.0	20.0	25.5	23.5	24.5	---	---	---	21.0	17.0	19.0
16	21.0	19.5	20.0	26.0	23.5	24.5	---	---	---	21.0	19.0	20.0
17	19.5	18.0	18.5	26.0	23.0	24.0	25.0	22.0	23.5	20.0	17.5	19.0
18	18.5	18.0	18.0	26.5	23.0	24.5	24.0	20.5	22.5	19.0	16.0	18.0
19	19.0	18.0	18.5	27.0	24.0	25.5	21.0	18.0	19.0	18.0	14.5	16.5
20	20.5	19.0	19.5	27.0	24.0	25.5	20.5	17.0	19.0	17.0	14.5	16.0
21	21.0	18.5	20.0	25.0	23.5	24.0	---	---	---	17.5	13.0	15.0
22	21.0	20.0	20.5	24.5	22.5	23.5	---	---	---	18.0	14.5	16.0
23	22.0	20.0	21.0	25.5	23.5	24.5	---	---	---	21.5	17.0	19.0
24	22.0	20.5	21.5	26.5	23.5	24.5	---	---	---	21.5	18.5	20.0
25	23.5	21.0	22.5	25.0	23.5	24.0	---	---	---	19.0	17.5	18.0
26	24.5	22.5	23.5	25.5	23.0	24.5	---	---	---	18.5	17.0	17.5
27	26.0	23.5	25.0	---	---	---	---	---	---	21.5	17.0	19.0
28	25.5	24.0	24.5	---	---	---	---	---	---	22.0	20.0	21.0
29	25.0	23.0	24.0	---	---	---	---	---	---	21.0	16.5	20.0
30	25.5	23.0	24.0	---	---	---	---	---	---	19.5	17.0	18.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	26.0	14.5	20.5	28.0	22.0	25.0	---	---	---	---	---	---

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA.
(Hydrologic bench-mark station)

LOCATION.--Lat 41°23'22", long 77°41'28", Clinton County, at gaging station on left bank, 0.3 mile (0.5 km) downstream from Laurelly Fork, 1.5 miles (2.4 km) upstream from Left Branch Young Womans Creek, 3.7 miles (6.0 km) upstream from mouth, and 5 miles (8.0 km) northeast of Renovo.

DRAINAGE AREA.--46.2 mi^2 (120 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1965 to April 1973.
Sediment records: October 1968 to September 1970 (partial-record station), October 1972 to September 1973 (partial-record station).

REMARKS.--Miscellaneous sediment data for this station on page 411. Miscellaneous samples of sediment data published for water years 1969-70. Marcn 8, 1972 sampie collected at 01545500 West Branch Susquehanna River at Renovo erroneously reported under 01545600 Young Womans Creek near Reonvo.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 12...	1200	6.6	4.0	90	30	5.3	1.2	1.4	.8	14
NOV. 18...	1100	126	4.2	40	30	4.0	.9	.7	.6	7
DEC. 29...	0945	155	4.0	80	10	4.0	.8	.7	.5	6
FEB. 28...	1230	26	3.2	--	0	3.8	.9	.9	.5	9
APR. 24...	1420	59	3.9	--	0	4.2	.9	.8	.6	9

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 12...	0	11	7.3	2.0	.2	.05	.01	.00	31
NOV. 18...	0	6	7.5	1.0	.2	.20	.01	.00	28
DEC. 29...	0	5	7.7	1.0	.0	.10	--	.00	25
FEB. 28...	0	7	5.9	1.1	.1	.14	.12	.12	24
APR. 24...	0	7	5.7	1.1	.2	.12	.04	--	24

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	29	18	7	48	7.2	9.5	0	1.4	2.5
NOV. 18...	23	14	8	36	6.4	--	0	4.5	3.0
DEC. 29...	22	13	8	35	6.2	4.0	0	6.1	2.0
FEB. 28...	21	13	6	--	7.1	.5	0	1.0	--
APR. 24...	22	14	7	36	7.1	14.0	0	1.0	2.5

01547400 BALD EAGLE CREEK NEAR MILESBURG, PA.

LOCATION.--Lat 40°58'31", long 75°44'35", Centre County, at highway bridge at Curtin, 500 ft (152 m) downstream from Antis Run, 250 ft (76 m) downstream from Nittany Creek, and 3.5 miles (5.6 km) downstream from Milesburg.

DRAINAGE AREA.--296 mi^2 (767 km^2).

PERIOD OF RECORD.--Chemical analyses: January to May 1970.
Water temperatures: July 1967 to September 1973.

EXTREMES.

Period of record:
Water temperatures: Maximum, 29.0°C July 17, 18, Aug. 9, 23, 1968, June 27, 30, July 16, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--The thermograph at this site records continuous water temperature of the inflow to Foster Joseph Sayers Reservoir.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	---	---	---	---	---	---	4.0	3.5	6.5	4.5
2	15.5	14.0	---	---	---	---	---	---	3.5	2.0	7.0	5.0
3	15.5	14.5	---	---	---	---	---	---	4.0	3.0	5.5	4.5
4	15.5	15.0	---	---	---	---	4.0	3.0	4.5	3.5	6.0	4.0
5	15.5	15.0	---	---	---	---	3.5	3.0	5.0	4.0	5.5	5.0
6	16.0	16.0	---	---	---	---	2.0	1.0	4.5	4.0	5.5	5.0
7	16.0	15.5	---	---	---	---	1.5	1.0	5.5	4.5	6.0	5.5
8	15.5	14.5	---	---	---	---	2.0	1.5	5.0	4.0	8.5	5.5
9	15.0	14.5	---	---	---	---	3.0	2.0	3.0	2.0	8.5	6.0
10	14.5	14.0	---	---	---	---	3.0	2.0	3.0	1.5	8.5	6.5
11	15.0	14.0	---	---	---	---	3.0	2.0	3.0	1.5	7.0	6.5
12	---	---	---	---	---	---	3.0	2.0	3.5	1.0	8.5	8.0
13	---	---	---	---	---	---	3.0	2.0	4.5	3.0	9.5	7.0
14	---	---	---	---	---	---	3.0	2.0	4.0	3.5	8.5	7.0
15	---	---	---	---	4.5	4.0	3.5	3.5	4.0	3.5	9.0	8.0
16	---	---	---	---	4.0	3.0	4.0	3.5	4.5	3.5	9.0	8.0
17	---	---	---	---	3.5	1.5	4.5	4.0	4.5	2.0	9.0	6.5
18	---	---	---	---	2.0	1.5	5.0	4.0	4.5	2.0	6.5	5.5
19	---	---	---	---	1.5	1.5	4.5	3.5	5.0	3.5	6.0	5.0
20	---	---	---	---	1.5	1.5	3.5	3.0	5.5	4.5	8.0	5.0
21	---	---	---	---	3.5	1.5	4.0	1.5	6.0	5.0	8.0	5.5
22	---	---	---	---	3.5	3.0	3.0	1.0	5.5	4.5	6.5	5.5
23	---	---	---	---	4.5	3.5	3.0	2.0	6.0	4.5	9.0	5.0
24	---	---	---	---	4.5	4.5	---	---	6.0	4.5	9.0	5.5
25	---	---	---	---	5.5	4.5	---	---	6.0	4.0	8.0	6.0
26	---	---	---	---	6.0	5.5	2.0	1.5	6.0	5.0	7.0	6.0
27	---	---	---	---	---	---	3.0	1.5	6.0	4.5	9.0	5.5
28	---	---	---	---	---	---	3.5	3.0	6.5	4.5	9.0	5.5
29	---	---	---	---	---	---	4.0	2.0	---	---	9.0	6.5
30	---	---	---	---	---	---	3.0	2.0	---	---	9.0	7.0
31	---	---	---	---	---	---	4.5	3.5	---	---	9.0	8.5
MONTH	---	---	---	---	---	---	5.0	1.0	6.5	1.0	9.5	4.0

01547400 BALD EAGLE CREEK NEAR MILESBURG, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	13.5	10.0	17.0	12.0	---	---	21.5	19.0	23.5	20.5
2	8.5	8.0	13.5	8.0	17.0	14.5	---	---	20.5	17.0	23.0	20.0
3	9.5	8.5	11.5	8.0	17.0	14.5	---	---	20.5	16.5	24.0	19.5
4	9.0	8.0	12.0	10.0	20.0	15.5	---	---	21.5	17.0	---	---
5	8.5	7.0	16.5	8.5	22.0	16.5	---	---	---	---	---	---
6	9.5	7.0	22.0	8.0	21.0	18.0	---	---	---	---	---	---
7	10.0	8.5	23.0	4.5	19.5	16.5	---	---	---	---	21.0	17.0
8	8.5	7.0	17.0	7.0	20.0	15.5	---	---	---	---	21.0	16.0
9	9.5	6.0	19.5	12.0	20.0	15.5	---	---	---	---	19.0	16.0
10	8.5	6.5	21.5	11.5	22.0	16.5	---	---	---	---	---	---
11	7.0	6.0	14.5	7.0	23.0	17.0	---	---	---	---	---	---
12	6.5	5.5	13.5	6.5	21.0	18.0	---	---	---	---	---	---
13	11.0	5.5	11.0	6.0	20.0	17.0	23.5	16.5	---	---	18.5	---
14	9.0	5.5	14.5	4.5	21.0	15.5	24.5	19.5	---	---	16.5	15.5
15	9.5	5.5	14.0	6.5	21.0	15.5	23.5	19.0	---	---	18.0	16.0
16	10.5	6.5	18.5	4.5	19.5	15.5	22.0	18.5	---	---	18.0	14.5
17	10.0	9.0	13.5	8.5	16.0	14.0	22.0	18.0	---	---	16.5	13.5
18	11.0	9.0	12.0	5.5	15.0	13.5	24.0	18.0	---	---	16.5	14.5
19	11.5	9.5	14.0	8.5	16.0	14.0	24.0	18.5	---	---	---	---
20	12.0	10.0	13.0	11.5	16.5	14.0	23.5	19.0	21.0	---	---	---
21	12.0	9.5	13.0	11.0	18.0	14.5	21.5	19.0	20.5	18.5	---	13.5
22	12.0	10.0	17.0	11.0	19.5	16.5	21.0	18.0	20.0	17.0	---	---
23	12.0	10.5	15.5	14.0	20.0	16.5	23.0	19.0	20.5	---	---	---
24	11.5	9.5	14.0	13.0	20.0	16.0	23.5	18.5	22.0	17.0	---	---
25	11.0	9.5	14.0	13.0	21.5	16.5	22.0	18.5	22.0	17.0	---	---
26	9.5	9.0	13.0	12.0	21.0	18.0	---	---	23.0	18.5	---	---
27	9.5	8.0	12.0	11.5	22.0	18.5	---	---	24.0	19.5	---	---
28	9.5	8.5	14.5	11.0	21.0	18.5	---	---	26.0	21.0	---	---
29	11.0	8.5	15.5	13.5	21.0	18.5	---	---	26.0	21.5	18.5	16.5
30	12.0	10.0	17.0	14.0	---	---	24.0	---	25.5	---	18.0	14.5
31	---	---	15.5	14.0	---	---	23.5	18.5	24.5	21.0	---	---
MONTH	12.0	5.5	23.0	4.5	23.0	12.0	---	---	---	---	---	---

01547500 BALD EAGLE CREEK AT BLANCHARD, PA.

LOCATION.--Lat 41°03'06", long 77°36'17", Centre County, at gaging station on left bank, 0.4 mile (0.6 km) downstream from Foster Joseph Sayers Reservoir, 0.7 mile (1.1 km) upstream from Marsh Creek, and 0.9 mile (1.4 km) south of Blanchard.

DRAINAGE AREA.--339 mi^2 (878 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1959 to September 1972 (discontinued).
Water temperatures: October 1956 to September 1957, August 1967 to September 1973.
Sediment records: December 1955 to March 1958 (partial-record station).

EXTREMES.--1972-73:
Water temperatures: Maximum, 25.0°C July 14; minimum, 1.5°C Jan. 8.

Period of record:
Water temperatures (1956-58, 1967-73): Maximum, 33.0°C June 20, 1957; minimum, freezing point Jan. 13, 14, 1957, Jan. 26, Feb. 18, 23, 1968.

REMARKS.--The thermograph at this site records continuous water temperature of the outflow from Foster Joseph Sayers Reservoir.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	9.5	3.5	3.5	5.0	4.5	---	---	5.5	5.0
2	---	---	9.5	9.5	3.5	3.0	5.0	4.5	3.0	3.0	5.5	5.0
3	---	---	10.0	9.5	3.0	3.0	5.0	4.5	3.0	3.0	5.0	4.5
4	---	---	9.5	9.5	3.0	3.0	4.0	4.0	3.0	2.0	5.0	4.5
5	---	---	9.5	9.0	3.5	3.0	4.5	3.5	3.5	3.0	5.0	4.5
6	17.0	17.0	9.5	9.0	3.5	3.5	3.5	3.0	4.0	3.5	5.0	5.0
7	17.0	16.5	10.0	9.5	4.5	3.5	3.0	2.0	4.0	4.0	5.5	5.0
8	16.5	16.0	9.5	4.5	4.5	4.5	2.0	1.5	4.5	4.0	8.0	5.5
9	16.0	15.0	9.5	9.5	4.0	4.0	3.0	2.0	---	---	7.0	6.0
10	16.0	15.0	9.5	9.0	4.0	3.5	3.0	2.0	---	---	8.0	6.5
11	15.5	15.0	9.0	8.5	5.0	4.0	3.0	2.0	---	---	8.0	8.0
12	15.0	15.0	8.5	8.5	5.0	5.0	3.5	3.0	---	---	8.5	8.0
13	15.5	15.0	8.5	8.5	5.0	5.0	3.5	3.0	---	---	8.5	8.0
14	15.5	15.0	8.5	8.5	5.0	5.0	3.5	3.0	---	---	8.5	8.5
15	14.5	14.0	8.5	8.0	5.0	5.0	3.5	3.5	8.5	8.0	8.5	8.5
16	14.0	14.0	8.0	8.0	5.0	4.0	4.0	3.5	3.0	2.0	---	---
17	14.0	14.0	7.0	7.0	4.0	3.0	4.5	3.5	3.0	2.0	---	---
18	13.5	13.5	7.0	6.0	2.0	2.0	4.5	4.0	---	---	---	---
19	13.0	12.0	6.0	6.0	2.0	2.0	4.0	3.5	---	---	7.0	6.5
20	11.5	12.0	6.0	5.5	2.0	2.0	3.5	3.0	---	---	7.0	6.5
21	11.0	11.0	5.5	5.0	4.0	2.0	3.5	3.0	---	---	7.0	5.5
22	10.5	10.5	5.0	5.0	4.0	4.0	4.0	4.0	---	---	6.0	6.0
23	10.5	10.5	4.5	4.5	5.0	4.0	4.0	4.0	4.0	3.5	6.5	5.5
24	10.5	10.5	4.5	4.0	5.0	5.0	4.5	3.5	4.0	3.5	7.0	6.0
25	10.5	10.0	4.0	3.5	6.0	5.0	4.0	3.0	4.5	4.0	6.5	6.0
26	10.5	10.0	3.5	3.5	6.5	6.0	4.0	3.5	4.5	4.0	6.0	6.0
27	11.0	10.0	3.5	3.5	6.5	6.0	3.5	3.5	5.5	4.5	7.0	6.0
28	10.0	10.0	3.5	3.5	6.0	6.0	3.0	3.0	5.5	4.5	8.0	6.0
29	10.0	10.0	3.5	3.5	4.5	4.5	3.5	2.0	---	---	8.0	6.5
30	10.5	9.5	3.5	3.5	4.5	4.0	---	---	---	---	7.0	6.5
31	10.0	9.5	---	---	4.5	4.0	---	---	---	---	6.5	6.5
MONTH	17.0	9.5	10.0	3.5	6.5	2.0	5.0	1.5	---	---	8.5	4.5

01547500 BALD EAGLE CREEK AT BLANCHARD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	---	---	15.5	14.0	20.0	19.0	23.5	22.0	24.0	22.0
2	8.5	7.0	12.0	11.5	15.5	14.5	20.0	19.0	24.0	23.0	24.0	22.0
3	8.5	8.5	13.5	11.5	15.0	14.5	20.5	20.0	24.0	22.0	24.0	23.0
4	8.5	8.5	---	---	16.0	14.0	21.0	19.5	24.0	22.0	---	---
5	9.0	8.5	13.0	11.0	16.0	15.0	21.5	20.5	24.0	22.0	24.0	23.0
6	9.0	8.5	13.0	11.0	16.5	15.0	21.5	20.5	24.0	22.0	23.5	22.0
7	9.0	9.0	---	---	18.0	15.0	22.0	20.5	24.0	22.0	23.5	22.0
8	8.5	8.0	---	---	16.5	16.0	22.0	20.5	24.0	22.0	23.5	22.0
9	9.0	8.0	---	---	18.0	16.0	22.0	21.0	24.5	22.0	23.0	21.5
10	8.5	8.0	---	---	16.5	16.0	22.0	21.0	23.5	22.0	23.0	21.5
11	8.0	8.0	15.0	14.0	17.0	15.5	21.5	20.5	23.5	22.0	23.0	21.0
12	7.0	7.0	14.0	13.5	17.0	16.0	21.5	20.0	---	---	21.5	20.5
13	8.0	7.0	13.5	13.5	17.0	16.5	23.0	21.0	---	---	20.0	19.5
14	8.0	7.0	14.0	13.0	17.0	16.0	25.0	21.5	---	---	19.5	19.0
15	---	---	14.0	13.5	16.5	16.0	24.5	23.5	---	---	19.5	19.5
16	---	---	14.5	13.5	16.5	16.0	23.5	22.0	---	---	19.5	19.0
17	---	---	14.0	13.5	16.5	15.5	23.0	21.5	---	---	19.5	19.0
18	---	---	13.5	13.0	16.5	16.0	23.5	21.5	---	---	19.5	19.0
19	---	---	14.0	13.0	17.0	17.0	24.5	22.0	---	---	19.5	18.5
20	---	---	13.0	13.0	17.0	16.5	23.5	22.0	22.0	21.5	19.0	18.0
21	---	---	13.5	13.0	18.0	18.0	23.0	21.0	21.5	21.5	19.0	18.5
22	---	---	14.5	13.0	18.5	18.0	22.0	21.0	21.5	21.0	18.5	18.0
23	---	---	14.0	13.0	19.0	18.0	22.0	21.5	22.0	21.0	19.5	19.0
24	---	---	13.0	13.0	19.0	18.0	23.5	21.5	23.0	21.5	19.5	18.5
25	---	---	13.5	13.0	19.0	18.5	22.0	21.5	23.0	21.0	19.0	18.5
26	---	---	13.5	13.0	19.5	18.5	23.5	21.5	23.0	21.5	19.0	18.5
27	---	---	13.0	13.0	20.0	19.0	23.5	22.0	23.5	21.5	---	---
28	---	---	14.5	13.5	20.0	19.0	24.0	22.0	24.5	22.0	19.5	19.0
29	---	---	15.0	14.0	19.5	18.5	23.5	22.0	24.0	22.0	19.0	18.5
30	---	---	14.5	14.0	20.0	18.5	23.5	22.0	24.0	23.0	19.0	18.0
31	---	---	---	---	---	---	24.0	22.0	24.0	23.0	---	---
MONTH	---	---	---	---	20.0	14.0	25.0	19.0	---	---	24.0	18.0

01547950 BEECH CREEK AT MONUMENT, PA.

LOCATION.--Lat 41°06'42", long 77°42'09", Centre County, at gaging station on right bank 800 ft (244 m) downstream from bridge at Monument, 850 ft (259 m) downstream from Monument Run, 0.6 mile (1.0 km) upstream from Twin Run, and 8.7 miles (14 km) upstream from mouth.

DRAINAGE AREA.--152 mi^2 (394 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1968 to September 1973.
Water temperatures: December 1968 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum, 496 micromhos Oct. 8; minimum, 90 micromhos Feb. 3.
pH: Maximum, 5.2 Feb. 6; minimum, 3.3 Sept. 30.
Water temperatures: Maximum, 27.0°C July 8, Aug. 28, 30; minimum, freezing point Dec. 17-18, Jan. 21-22.

Period of record:
Specific conductance (1968-73): Maximum, 519 micromhos Sept. 14; 1972; minimum, 90 micromhos Feb. 3, 1973.
pH (1968-73): Maximum, 7.3 Dec. 17, 1969; minimum, 2.9 June 29, 30, 1969.
Water temperatures: Maximum, 28.5°C June 20, 1971; minimum, freezing point on many days during winter periods.

REMARKS.--Automatic recording instrumentation for specific conductance, pH, and water temperature installed in December 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 20...	1045	28	6.4	--	--	--	870	--	5000	33	16	3.5
NOV. 22...	0830	47	5.9	--	2600	--	630	--	1800	11	6.2	1.7
JAN. 05...	0800	277	6.2	--	--	--	700	--	2400	12	8.0	2.0
FEB. 16...	0830	220	5.7	3300	--	310	--	2000	--	3.0	7.4	1.8
MAR. 23...	1700	352	5.1	--	2100	--	600	--	--	10	5.2	1.9
MAY 01...	1400	508	4.9	--	1800	410	--	1100	--	7.4	4.4	1.5
JUNE 14...	1615	224	6.0	--	--	50	--	1900	--	13	6.9	1.7
JULY 26...	1500	136	6.2	--	3400	--	300	--	2900	15	9.3	1.8
SEP. 07...	0830	56	5.6	3500	--	--	300	--	4400	24	14	2.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT. 20...	1.8	--	--	--	180	4.0	.4	--	.02	--	--	--
NOV. 22...	1.0	--	--	--	74	4.5	.2	--	.20	--	--	--
JAN. 05...	1.1	--	--	--	90	3.0	.1	--	.20	--	--	--
FEB. 16...	1.0	0	0	0	66	2.1	.2	.15	--	.00	.15	--
MAR. 23...	1.1	0	0	0	55	2.5	.1	.08	--	.00	.08	--
MAY 01...	1.0	0	0	0	48	2.2	.2	.12	--	.00	.12	--
JUNE 14...	1.1	0	0	0	88	2.0	.1	.07	--	.00	.07	.03
JULY 26...	1.1	0	0	--	110	2.0	.3	.10	--	.00	--	--
SEP. 07...	1.6	0	0	--	140	2.7	.3	--	.09	--	.09	--

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
OCT. 20...	.00	289	--	148	--	45	.9	449	3.7	3.5	0
NOV. 22...	.00	114	--	53	--	20	.4	189	4.3	2.4	0
JAN. 05...	.00	145	123	63	63	30	.6	243	3.9	3.6	0
FEB. 16...	--	136	88	38	38	25	.5	213	4.2	--	0
MAR. 23...	--	93	83	46	46	--	--	159	4.5	7.0	0
MAY 01...	--	79	71	37	37	18	.4	134	4.5	11.0	0
JUNE 14...	--	138	120	61	61	24	.5	210	3.9	14.0	0
JULY 26...	--	193	153	76	76	30	.6	273	3.8	20.4	3
SEP. 07...	--	238	196	118	118	31	.6	377	3.3	17.4	3

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	478	450	461	477	458	469	---	---	---	217	207	213
2	454	438	449	458	412	436	---	---	---	216	208	211
3	450	438	445	428	403	412	---	---	---	221	211	217
4	453	440	447	439	428	434	---	---	---	221	197	210
5	460	450	454	433	420	426	---	---	---	236	220	238
6	463	430	450	428	420	424	---	---	---	225	217	220
7	479	418	437	432	421	426	---	---	---	242	202	221
8	496	478	488	422	249	325	---	---	---	249	210	232
9	478	454	464	366	285	325	---	---	---	258	220	239
10	463	448	456	289	281	285	---	---	---	253	227	242
11	464	454	458	287	278	282	---	---	---	252	222	240
12	466	447	460	290	283	286	---	---	---	256	232	250
13	471	458	466	289	281	284	---	---	---	252	231	241
14	477	468	472	---	---	---	---	---	---	269	234	249
15	478	471	474	---	---	---	183	176	179	262	244	253
16	479	469	474	---	---	---	197	184	191	257	248	252
17	476	470	473	---	---	---	204	191	197	268	253	259
18	482	471	477	154	146	150	216	206	211	264	257	263
19	471	461	466	161	153	157	229	219	224	267	256	262
20	474	462	467	191	156	172	254	231	241	280	258	272
21	482	467	475	194	186	190	262	236	257	276	230	260
22	471	452	460	200	188	194	286	178	229	312	227	269
23	464	455	459	204	196	201	150	119	129	294	200	216
24	468	459	463	---	---	---	134	116	124	227	213	221
25	474	467	470	---	---	---	149	133	141	230	222	227
26	479	470	474	---	---	---	159	143	150	237	211	237
27	---	---	---	---	---	---	168	156	162	238	213	227
28	470	462	467	---	---	---	181	167	170	241	192	214
29	467	452	459	---	---	---	195	178	186	205	179	196
30	471	452	462	---	---	---	207	191	200	184	159	172
31	480	470	476	---	---	---	211	185	205	176	164	170
MONTH	496	418	463	---	---	---	---	---	---	312	159	232

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	170	165	168	320	288	301	203	183	195	---	---	---
2	193	128	164	328	300	313	208	177	193	146	137	141
3	134	90	106	334	245	297	178	165	171	160	144	150
4	110	94	100	250	174	222	170	148	159	161	156	158
5	132	106	120	177	137	157	174	140	157	171	160	165
6	167	134	151	141	127	134	142	130	135	179	168	172
7	---	---	---	130	126	128	131	127	128	188	176	181
8	---	---	---	135	125	132	145	127	133	189	185	187
9	---	---	---	134	128	130	144	137	139	208	177	191
10	---	---	---	132	128	130	156	136	146	179	164	170
11	---	---	---	135	130	132	154	144	149	165	159	162
12	---	---	---	140	133	136	148	143	145	159	151	154
13	---	---	---	141	136	139	149	144	146	157	149	152
14	---	---	---	144	140	141	155	146	150	156	149	152
15	---	---	---	172	136	153	161	152	156	177	149	162
16	---	---	---	155	124	135	168	159	163	166	157	160
17	235	190	214	130	122	126	169	164	167	164	148	156
18	254	190	226	125	113	117	187	167	176	169	157	161
19	252	191	220	121	101	118	190	184	187	157	152	155
20	232	201	216	133	121	126	196	189	192	160	146	153
21	226	214	218	142	133	136	203	195	198	160	147	152
22	241	236	238	150	140	145	206	198	202	148	142	145
23	247	232	240	161	150	155	203	197	200	144	138	141
24	254	242	247	169	160	164	214	198	209	144	137	141
25	275	222	251	169	164	166	---	---	---	165	142	153
26	274	254	263	178	166	172	---	---	---	148	138	143
27	269	259	265	181	170	175	---	---	---	140	132	135
28	295	260	280	188	178	182	---	---	---	152	129	134
29	---	---	---	195	185	190	---	---	---	159	120	130
30	---	---	---	208	191	197	---	---	---	121	115	118
31	---	---	---	209	200	204	---	---	---	129	118	123
MONTH	---	---	---	334	101	166	214	127	167	208	115	153

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	138	128	133	289	274	279	254	247	251	365	354	340
2	150	137	143	294	283	287	262	250	257	---	---	---
3	159	148	153	298	288	293	271	258	264	---	---	---
4	193	156	174	317	290	307	288	268	277	---	---	---
5	181	166	178	309	301	304	298	287	291	---	---	---
6	138	157	195	319	308	312	310	297	302	---	---	---
7	194	175	183	326	317	320	319	309	313	---	---	---
8	169	160	164	334	324	328	325	313	318	380	353	363
9	179	171	175	335	322	332	335	320	325	368	356	362
10	187	176	181	335	318	324	322	316	329	375	361	369
11	197	181	187	349	335	341	346	326	334	381	369	376
12	204	194	199	351	345	348	347	338	342	390	377	384
13	227	203	215	358	347	351	357	331	344	393	384	389
14	219	209	214	368	352	358	376	271	327	396	240	346
15	228	214	219	368	288	335	384	294	338	401	301	367
16	238	221	228	407	320	355	339	310	324	379	331	346
17	257	238	248	333	317	324	357	338	346	346	331	336
18	260	242	249	348	332	338	360	210	318	347	281	312
19	262	244	250	355	344	349	288	227	257	373	346	362
20	257	247	251	359	348	353	300	269	278	362	335	346
21	390	230	270	381	244	310	279	271	275	365	336	345
22	379	240	266	284	244	256	294	274	281	370	355	365
23	255	244	249	259	244	249	296	287	291	465	316	384
24	260	250	244	250	242	246	304	292	297	454	345	393
25	265	253	258	252	244	248	316	299	305	346	335	339
26	272	260	264	288	240	265	319	307	312	353	341	346
27	279	268	272	282	227	252	324	312	318	370	352	357
28	289	268	280	266	227	236	338	319	325	375	366	370
29	365	250	284	268	232	243	343	330	335	399	357	367
30	274	250	259	251	241	245	352	334	331	430	399	415
31	---	---	---	253	244	248	348	334	340	---	---	---
MONTH	390	128	220	407	227	301	384	210	308	465	280	362

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.6	3.6	3.6	3.6	3.6	3.6	---	---	---	4.0	3.9	4.0
2	3.7	3.6	3.6	3.8	3.6	3.7	---	---	---	4.0	3.9	3.9
3	3.7	3.6	3.7	3.7	3.5	3.6	---	---	---	4.0	3.9	4.0
4	3.7	3.6	3.7	3.6	3.5	3.5	---	---	---	4.0	3.9	3.9
5	3.7	3.7	3.7	3.6	3.5	3.5	---	---	---	4.1	4.0	4.0
6	3.7	3.6	3.7	3.6	3.5	3.6	---	---	---	4.1	4.0	4.1
7	3.7	3.6	3.7	3.6	3.5	3.6	---	---	---	4.1	4.1	4.1
8	3.6	3.6	3.6	3.9	3.5	3.7	---	---	---	4.1	4.0	4.0
9	3.7	3.6	3.6	3.7	3.5	3.6	---	---	---	4.1	4.0	4.1
10	3.8	3.6	3.7	3.7	3.6	3.6	---	---	---	4.1	4.1	4.1
11	3.8	3.7	3.7	3.7	3.6	3.7	---	---	---	4.1	4.0	4.0
12	3.8	3.7	3.7	3.7	3.6	3.7	---	---	---	4.1	4.0	4.1
13	3.8	3.7	3.7	3.7	3.6	3.7	---	---	---	4.1	4.0	4.1
14	3.7	3.7	3.7	---	---	---	---	---	---	4.1	4.0	4.1
15	3.7	3.7	3.7	---	---	---	4.0	3.8	3.9	4.1	4.0	4.0
16	3.8	3.7	3.7	---	---	---	4.0	3.9	4.0	4.0	4.0	4.0
17	3.8	3.7	3.7	---	---	---	4.1	4.0	4.0	4.0	4.0	4.0
18	3.9	3.7	3.7	4.1	3.9	4.0	4.1	4.0	4.0	4.0	3.9	4.0
19	3.8	3.7	3.7	4.0	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0
20	3.8	3.6	3.7	4.1	4.0	4.0	4.0	3.9	4.0	4.0	4.0	4.0
21	3.7	3.7	3.7	4.0	3.9	3.9	4.0	3.9	4.0	4.1	4.0	4.0
22	3.7	3.7	3.7	4.1	3.9	4.0	4.1	3.9	4.0	4.1	4.0	4.0
23	3.7	3.7	3.7	4.1	4.0	4.1	4.0	3.8	3.9	4.5	4.1	4.3
24	3.7	3.6	3.7	---	---	---	4.1	3.9	4.0	4.3	4.2	4.2
25	3.6	3.5	3.6	---	---	---	4.1	4.0	4.1	4.2	4.1	4.1
26	3.8	3.6	3.7	---	---	---	4.2	4.1	4.1	4.1	4.0	4.1
27	---	---	---	---	---	---	4.2	4.0	4.2	4.2	4.0	4.1
28	3.7	3.6	3.6	---	---	---	4.2	4.0	4.1	4.3	4.2	4.3
29	3.7	3.6	3.6	---	---	---	4.1	4.1	4.1	4.4	4.3	4.3
30	3.7	3.6	3.6	---	---	---	4.1	4.0	4.1	4.6	4.4	4.5
31	3.6	3.5	3.6	---	---	---	4.1	4.0	4.0	4.5	4.4	4.5
MONTH	3.9	3.5	3.7	---	---	---	---	---	---	4.6	3.9	4.1

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.4	4.2	4.3	3.8	3.7	3.7	4.1	3.9	4.0	---	---	---
2	4.6	4.2	4.3	3.8	3.7	3.7	4.1	4.0	4.1	4.3	4.3	4.3
3	5.1	4.6	4.7	3.9	3.8	3.8	4.2	4.1	4.1	4.3	4.2	4.3
4	4.9	4.6	4.8	4.1	3.9	4.0	4.2	4.1	4.2	4.3	4.2	4.2
5	5.0	4.9	5.0	4.2	4.1	4.1	4.5	4.2	4.4	4.2	4.2	4.2
6	5.2	5.0	5.1	4.3	4.2	4.2	4.6	4.5	4.6	4.2	4.1	4.2
7	5.1	4.9	5.0	4.3	4.2	4.2	4.6	4.5	4.6	4.1	4.1	4.1
8	4.9	4.9	4.9	4.3	4.2	4.2	4.6	4.5	4.6	4.1	4.0	4.1
9	---	---	---	4.3	4.2	4.2	4.7	4.5	4.6	4.1	4.0	4.1
10	---	---	---	4.2	4.2	4.2	4.6	4.5	4.5	4.1	4.1	4.1
11	---	---	---	4.2	4.2	4.2	4.6	4.5	4.5	4.1	4.0	4.1
12	---	---	---	4.2	4.1	4.2	4.6	4.4	4.5	4.2	4.1	4.1
13	---	---	---	4.2	4.1	4.2	4.5	4.4	4.5	4.2	4.1	4.2
14	---	---	---	4.2	4.1	4.2	4.5	4.4	4.5	4.2	4.1	4.2
15	---	---	---	4.5	4.1	4.3	4.3	4.2	4.3	4.2	4.1	4.1
16	---	---	---	4.5	4.2	4.3	4.2	4.2	4.2	4.2	4.1	4.2
17	4.2	4.0	4.1	4.3	4.3	4.3	4.1	4.0	4.0	4.2	4.1	4.2
18	4.2	4.0	4.1	4.5	4.3	4.4	4.0	3.9	4.0	4.2	4.1	4.2
19	4.1	4.0	4.0	4.7	4.5	4.6	4.0	3.9	3.9	4.2	4.2	4.2
20	4.1	4.0	4.0	4.7	4.6	4.6	3.9	3.9	3.9	4.2	4.1	4.2
21	4.0	3.9	4.0	4.6	4.5	4.5	3.9	3.8	3.9	4.2	4.2	4.2
22	4.0	3.8	3.9	4.5	4.4	4.5	3.9	3.8	3.8	4.2	4.2	4.2
23	3.9	3.8	3.8	4.4	4.2	4.3	3.8	3.8	3.8	4.2	4.2	4.2
24	3.8	3.7	3.7	4.2	4.1	4.2	3.8	3.8	3.8	4.2	4.2	4.2
25	3.8	3.7	3.8	4.1	4.1	4.1	---	---	---	4.2	4.0	4.1
26	3.8	3.7	3.7	4.1	4.0	4.0	---	---	---	4.2	4.1	4.1
27	3.9	3.8	3.8	4.0	4.0	4.0	---	---	---	4.2	4.1	4.1
28	3.9	3.8	3.8	4.0	3.9	3.9	---	---	---	4.2	4.1	4.1
29	---	---	---	4.0	3.9	3.9	---	---	---	4.3	4.1	4.2
30	---	---	---	4.0	3.9	4.0	---	---	---	4.2	4.1	4.2
31	---	---	---	4.0	3.9	4.0	---	---	---	4.3	4.1	4.2
MONTH	---	---	---	4.7	3.7	4.2	4.7	3.8	4.2	4.3	4.0	4.2

SUSQUEHANNA RIVER BASIN

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.3	4.2	4.2	3.7	3.6	3.7	3.7	3.6	3.6	3.5	3.5	3.5
2	4.2	4.1	4.2	3.7	3.6	3.6	3.7	3.5	3.6	---	---	---
3	4.2	4.1	4.2	3.6	3.6	3.6	3.7	3.6	3.6	---	---	---
4	4.1	4.1	4.1	3.6	3.6	3.6	3.6	3.6	3.6	---	---	---
5	4.2	4.1	4.1	3.6	3.6	3.6	3.6	3.6	3.6	---	---	---
6	4.1	3.9	4.1	3.7	3.5	3.7	3.6	3.6	3.6	---	---	---
7	4.1	4.0	4.1	3.7	3.6	3.7	3.6	3.5	3.6	---	---	---
8	4.2	4.0	4.1	3.7	3.6	3.7	3.6	3.5	3.6	3.6	3.5	3.5
9	4.2	4.2	4.2	3.7	3.6	3.6	3.6	3.5	3.5	3.6	3.5	3.6
10	4.2	4.2	4.2	3.7	3.6	3.6	3.5	3.4	3.5	3.6	3.5	3.6
11	4.2	4.1	4.1	3.6	3.6	3.6	3.5	3.4	3.5	3.6	3.5	3.6
12	4.1	4.0	4.1	3.6	3.6	3.6	3.5	3.4	3.5	3.6	3.5	3.6
13	4.0	3.9	4.0	3.6	3.5	3.6	3.5	3.4	3.4	3.6	3.5	3.6
14	3.9	3.7	3.8	3.6	3.6	3.6	3.6	3.4	3.5	3.7	3.6	3.6
15	3.7	3.7	3.7	3.6	3.5	3.6	3.6	3.4	3.5	3.7	3.5	3.6
16	3.7	3.7	3.7	3.6	3.5	3.6	3.6	3.5	3.6	3.6	3.5	3.6
17	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.6	3.6	3.6
18	3.6	3.6	3.6	3.6	3.6	3.6	3.8	3.5	3.6	3.8	3.6	3.7
19	3.7	3.6	3.6	3.6	3.5	3.5	3.7	3.6	3.5	3.6	3.6	3.6
20	3.7	3.6	3.6	3.5	3.5	3.5	3.7	3.6	3.6	3.7	3.6	3.6
21	3.8	3.6	3.7	3.6	3.4	3.5	3.7	3.6	3.6	3.7	3.5	3.6
22	3.9	3.6	3.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
23	3.8	3.8	3.8	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.4	3.5
24	3.8	3.7	3.8	3.6	3.5	3.6	3.7	3.6	3.6	3.6	3.4	3.5
25	3.8	3.7	3.8	3.6	3.5	3.6	3.6	3.6	3.6	3.6	3.5	3.6
26	3.8	3.7	3.7	3.7	3.6	3.7	3.6	3.6	3.6	3.6	3.6	3.6
27	3.8	3.7	3.7	3.7	3.6	3.7	3.6	3.6	3.6	3.6	3.4	3.5
28	3.8	3.6	3.7	3.7	3.6	3.7	3.7	3.6	3.6	3.5	3.4	3.4
29	3.8	3.5	3.7	3.7	3.6	3.7	3.6	3.6	3.6	3.4	3.4	3.4
30	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.6	3.4	3.3	3.3
31	---	---	---	3.7	3.6	3.6	3.6	3.5	3.5	---	---	---
MONTH	4.3	3.5	3.9	3.7	3.4	3.6	3.8	3.4	3.6	3.8	3.3	3.6

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	11.5	12.5	7.0	6.5	6.5	---	---	---	7.5	5.0	6.5
2	15.0	10.5	12.0	8.0	6.5	7.5	---	---	---	5.0	3.0	4.0
3	15.5	11.5	13.0	10.5	7.5	8.5	---	---	---	3.0	1.5	2.5
4	16.5	11.5	14.0	8.0	7.0	7.5	---	---	---	3.5	1.5	2.5
5	15.5	12.0	13.5	8.0	7.0	7.5	---	---	---	4.5	3.0	4.0
6	15.0	14.0	14.5	9.0	6.5	7.5	---	---	---	3.0	1.0	2.0
7	15.5	13.0	14.5	8.0	4.5	6.5	---	---	---	1.5	0.5	0.5
8	14.5	11.0	12.5	8.0	7.5	8.0	---	---	---	1.0	0.5	0.5
9	13.0	9.5	11.5	8.0	7.0	7.5	---	---	---	1.0	0.5	0.5
10	11.5	7.5	9.5	8.0	6.5	7.0	---	---	---	1.0	0.5	0.5
11	11.0	7.0	9.0	7.0	6.0	6.5	---	---	---	1.0	0.5	0.5
12	12.0	10.0	10.5	7.5	6.5	7.0	---	---	---	1.0	0.5	0.5
13	13.5	10.0	11.5	7.0	5.5	6.5	---	---	---	1.0	0.5	0.5
14	14.0	10.0	11.5	---	---	---	---	---	---	1.0	0.5	0.5
15	12.5	9.0	10.5	---	---	---	4.0	2.5	3.5	1.0	0.5	0.5
16	10.0	8.0	10.5	---	---	---	3.5	1.0	2.5	1.0	0.5	0.5
17	11.5	8.5	10.0	---	---	---	1.0	0.0	0.5	1.5	0.5	1.0
18	11.5	6.0	8.0	5.0	4.0	4.5	2.0	0.0	1.0	2.0	0.5	1.0
19	7.0	5.0	6.0	4.5	3.5	4.0	4.0	2.5	3.5	2.0	0.5	1.0
20	7.0	3.5	5.0	4.5	3.5	4.0	5.0	4.0	4.5	2.0	1.0	1.5
21	6.0	3.5	4.5	3.5	2.0	2.5	5.0	4.5	5.0	1.0	0.0	0.5
22	8.0	5.0	6.5	3.0	1.5	2.5	5.0	4.5	4.5	1.5	0.0	0.5
23	8.0	6.5	7.5	2.0	0.5	1.5	6.5	5.0	5.5	2.5	1.0	2.0
24	9.0	7.5	8.5	---	---	---	6.5	6.0	6.5	2.5	1.5	2.0
25	9.0	7.5	8.5	---	---	---	6.5	6.5	6.5	2.5	0.5	1.5
26	9.5	6.5	7.5	---	---	---	6.5	6.0	6.5	3.5	1.5	2.5
27	---	---	---	---	---	---	6.0	4.5	5.5	3.5	2.5	3.0
28	8.0	6.5	7.0	---	---	---	5.5	5.0	5.0	4.0	3.0	3.5
29	9.5	8.0	8.5	---	---	---	5.0	4.0	4.5	4.0	1.0	2.5
30	10.0	7.5	9.0	---	---	---	5.0	4.0	4.5	1.0	0.5	0.5
31	8.0	5.5	7.0	---	---	---	7.5	5.0	6.5	2.0	0.5	1.5
MONTH	16.5	3.5	10.0	---	---	---	---	---	---	7.5	0.0	1.5

SUSQUEHANNA RIVER BASIN

01547950 BEECH CREEK AT MONUMENT, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	1.5	2.0	6.0	1.5	3.5	9.0	8.0	8.5	---	---	---
2	3.5	2.5	3.0	7.0	3.5	5.0	9.5	8.5	9.0	13.0	10.5	12.0
3	4.5	3.0	3.5	5.5	4.0	5.0	9.0	7.5	8.5	12.5	10.5	11.5
4	5.0	3.5	4.0	6.0	4.5	5.0	8.0	7.0	7.0	10.5	8.0	9.0
5	5.0	4.0	4.5	5.5	5.0	5.5	7.5	6.0	7.0	11.5	7.0	9.0
6	4.5	3.5	4.0	5.5	5.0	5.5	9.5	6.0	7.5	14.5	7.5	11.0
7	5.0	4.0	4.5	6.0	5.5	5.5	10.0	7.0	8.5	16.0	7.5	11.0
8	5.0	4.0	5.0	8.5	5.5	7.0	9.5	7.0	8.0	14.0	11.5	12.5
9	---	---	---	8.0	5.0	6.5	9.0	5.0	7.0	14.5	11.0	12.5
10	---	---	---	8.5	5.5	7.0	8.0	6.5	7.5	15.5	11.5	13.5
11	---	---	---	7.5	6.5	7.0	6.5	4.5	5.5	14.5	11.5	13.0
12	---	---	---	7.5	7.0	7.0	6.0	4.0	5.0	13.0	10.0	11.5
13	---	---	---	9.0	6.5	7.5	8.0	3.5	5.5	11.5	9.5	10.5
14	---	---	---	7.0	5.5	6.5	9.0	4.0	6.5	12.0	8.5	10.0
15	---	---	---	8.0	7.0	7.5	10.0	4.5	7.5	12.5	9.5	11.0
16	---	---	---	8.5	7.0	8.0	12.0	6.5	9.5	14.5	8.0	11.0
17	1.0	0.0	0.5	9.0	6.5	8.5	11.0	10.0	10.5	12.0	8.5	10.0
18	1.0	0.0	0.5	6.0	4.5	5.0	12.0	9.5	11.0	9.5	7.5	8.5
19	0.5	0.0	0.5	5.0	4.0	4.5	13.0	10.5	12.0	12.0	6.5	9.5
20	0.5	0.0	0.5	6.5	4.0	5.0	15.0	10.0	12.5	11.5	10.5	10.5
21	1.5	0.5	1.0	6.0	4.0	5.0	16.0	11.5	13.5	12.0	10.0	11.0
22	2.5	0.5	1.5	5.5	4.0	4.5	16.5	12.5	14.5	15.0	9.0	12.0
23	2.0	0.0	1.0	7.0	3.5	5.0	15.0	12.0	13.5	13.5	12.0	12.5
24	2.5	0.0	1.0	7.5	3.5	5.5	15.0	10.5	12.5	12.0	11.0	11.5
25	2.0	0.0	1.0	6.5	4.5	5.5	---	---	---	11.5	10.5	11.0
26	3.0	1.0	2.0	7.0	6.0	6.5	---	---	---	11.0	10.5	10.5
27	3.5	0.0	1.5	9.5	6.0	7.5	---	---	---	10.5	10.0	10.5
28	3.5	0.5	2.0	9.0	5.0	7.0	---	---	---	12.5	10.0	11.0
29	---	---	---	9.0	6.5	7.5	---	---	---	14.0	11.5	12.5
30	---	---	---	8.0	7.0	7.5	---	---	---	14.0	11.0	12.5
31	---	---	---	8.5	7.0	8.0	---	---	---	12.5	11.0	11.5
MONTH	---	---	---	9.5	1.5	6.0	16.5	3.5	9.0	16.0	6.5	11.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	9.5	12.0	22.0	16.5	19.5	20.0	18.0	18.5	24.5	20.0	22.5
2	15.5	12.0	13.5	24.0	17.0	20.5	21.5	17.5	19.0	---	---	---
3	15.0	12.0	13.5	21.0	18.5	19.5	22.5	17.0	19.5	---	---	---
4	18.0	12.0	14.0	24.5	17.5	21.0	24.0	17.5	20.0	---	---	---
5	20.0	13.0	15.5	24.5	20.0	22.0	24.0	16.5	20.0	---	---	---
6	19.5	15.5	17.0	20.5	17.0	18.5	24.0	16.5	20.0	---	---	---
7	19.0	16.0	17.5	25.5	17.5	21.5	24.5	18.5	21.0	---	---	---
8	19.0	15.0	17.0	27.0	19.5	23.0	24.5	19.5	22.0	21.5	14.5	18.0
9	19.0	14.0	16.5	25.0	20.5	23.0	26.0	19.5	22.5	18.0	14.5	16.5
10	19.5	14.5	17.0	25.0	20.5	22.5	24.0	21.0	22.5	20.5	12.5	16.5
11	21.5	16.0	19.0	25.5	19.5	22.0	26.0	20.0	22.5	19.5	13.5	16.5
12	20.0	17.0	18.5	21.5	15.5	19.0	23.0	19.5	21.0	21.0	13.0	16.0
13	20.0	16.5	18.0	24.0	16.0	20.0	23.5	17.5	20.5	18.0	12.5	15.5
14	20.5	14.5	17.0	26.5	19.0	22.5	20.5	18.0	18.5	16.0	15.0	15.5
15	21.0	14.0	17.5	23.0	19.5	21.0	23.0	18.0	20.5	20.0	15.0	17.0
16	18.0	15.5	16.0	23.5	18.0	20.5	24.5	18.5	21.0	18.0	14.0	16.0
17	16.0	14.5	15.5	21.5	17.5	19.5	24.0	18.5	21.0	16.0	13.5	14.5
18	15.5	14.5	15.0	24.5	17.5	20.5	21.5	18.0	20.0	16.0	13.5	15.0
19	16.5	14.5	15.5	24.5	18.5	22.0	22.0	17.5	18.5	16.0	11.0	13.0
20	19.0	15.0	16.5	24.0	19.0	21.5	21.0	17.5	19.0	13.0	11.0	12.5
21	19.5	16.5	18.0	22.0	18.0	19.5	18.0	17.5	18.5	16.0	10.0	12.0
22	19.5	17.0	18.0	22.0	17.0	19.5	18.0	15.0	17.0	16.0	11.0	13.0
23	20.5	16.0	18.0	23.0	18.0	20.5	19.5	17.5	16.0	19.0	14.5	16.5
24	21.5	16.0	18.5	23.5	17.5	20.5	20.5	14.5	17.0	19.0	14.0	16.0
25	21.5	16.5	19.0	20.5	17.5	18.5	22.0	15.5	18.5	15.5	13.5	14.0
26	22.5	17.5	19.5	21.5	17.0	19.5	23.0	17.0	19.5	15.5	14.0	14.5
27	22.0	18.0	20.0	21.5	18.0	20.0	23.5	18.5	21.0	19.5	13.5	15.0
28	20.5	18.0	19.5	23.5	17.5	20.5	27.0	20.0	23.0	17.5	16.0	16.5
29	20.5	17.0	18.5	21.5	18.0	19.5	26.0	19.5	22.5	17.5	16.0	16.5
30	21.5	16.0	19.0	22.5	16.0	19.5	27.0	20.5	23.5	17.5	14.0	15.5
31	---	---	---	22.5	16.5	19.5	25.5	21.0	23.0	---	---	---
MONTH	22.5	9.5	17.0	27.0	15.5	20.5	27.0	12.5	20.0	24.5	10.0	15.5

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.

LOCATION.--Lat 41°34'04", long 77°06'06", Tioga County, on left bank at downstream side of bridge on gravel road between U.S. Route 15 and State Highway 414, 0.7 mile (1.1 km) north of Liberty, 100 ft (305 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--1.08 mi^2 (2.80 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: April to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 27.0°C July 8; minimum, 2.0°C Apr. 13.

Period of record:
Water temperatures (1972-73): Maximum, 27.0°C July 8, 1973; minimum, 2.0°C Apr. 13, 1973.

REMARKS.--Sediment data for this station on page 374. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 11...	1310	.08	5.1	190	400	22	2.7	4.2	2.9	61	0
FEB. 20...	1455	.40	5.7	60	10	13	1.5	3.1	1.0	19	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 11...	50	15	8.0	.0	.54	.12	.45	.57	.08	.05
FEB. 20...	16	18	6.0	.0	1.7	.08	.73	.81	.05	.03

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	94	94	66	16	164	7.5	9.0	3	3.1	5.5
FEB. 20...	64	58	39	23	104	6.7	1.0	3	6.1	3.0

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	12.5	7.5	10.0
2	---	---	---	---	---	---	---	---	---	13.5	9.5	11.5
3	---	---	---	---	---	---	---	---	---	13.5	9.0	11.0
4	---	---	---	---	---	---	---	---	---	9.5	7.0	8.5
5	---	---	---	---	---	---	---	---	---	11.0	6.5	8.5
6	---	---	---	---	---	---	---	---	---	16.0	5.5	10.5
7	---	---	---	---	---	---	---	---	---	17.5	6.5	11.5
8	---	---	---	---	---	---	---	---	---	11.0	9.0	10.0
9	---	---	---	---	---	---	---	---	---	16.0	9.5	12.0
10	---	---	---	---	---	---	---	---	---	17.5	10.0	13.0
11	---	---	---	---	---	---	---	---	---	15.5	9.0	12.0
12	---	---	---	---	---	---	---	---	---	12.5	9.0	10.0
13	---	---	---	---	---	---	9.0	2.0	5.0	12.0	9.0	10.0
14	---	---	---	---	---	---	12.0	2.0	6.5	14.0	7.0	10.5
15	---	---	---	---	---	---	13.5	2.5	7.5	13.0	8.0	10.0
16	---	---	---	---	---	---	15.0	5.0	9.5	17.0	6.0	11.0
17	---	---	---	---	---	---	12.5	9.0	11.0	9.5	7.5	8.5
18	---	---	---	---	---	---	13.5	9.5	11.5	11.0	7.0	8.5
19	---	---	---	---	---	---	12.5	9.5	11.5	15.5	5.0	10.5
20	---	---	---	---	---	---	20.0	10.5	14.0	12.0	9.5	10.5
21	---	---	---	---	---	---	16.5	9.5	12.5	13.0	9.5	11.5
22	---	---	---	---	---	---	18.0	9.0	13.5	16.0	8.5	12.0
23	---	---	---	---	---	---	12.5	9.0	11.5	12.0	10.5	11.0
24	---	---	---	---	---	---	16.0	8.5	11.0	12.0	10.0	11.0
25	---	---	---	---	---	---	11.0	7.0	9.0	13.0	10.5	12.0
26	---	---	---	---	---	---	10.5	9.0	9.5	11.0	9.5	10.5
27	---	---	---	---	---	---	9.5	9.0	9.0	10.5	9.0	10.0
28	---	---	---	---	---	---	10.5	8.0	9.0	14.5	9.5	12.0
29	---	---	---	---	---	---	13.0	6.5	9.0	14.5	11.5	12.5
30	---	---	---	---	---	---	14.5	6.0	9.5	15.5	10.0	12.5
31	---	---	---	---	---	---	---	---	---	13.0	9.5	11.5
MONTH	---	---	---	---	---	---	---	---	---	17.5	5.0	11.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	9.0	12.5	24.0	13.5	18.5	20.0	18.0	19.0	---	---	---
2	18.0	11.0	14.0	24.0	15.0	19.5	23.0	18.0	20.0	---	---	---
3	17.0	10.5	14.0	20.5	18.0	19.0	24.0	16.5	19.5	---	---	---
4	22.0	13.0	16.5	26.0	17.0	21.0	23.5	16.0	19.5	---	---	---
5	23.0	15.0	18.0	23.0	17.0	20.0	25.0	16.0	20.0	---	---	---
6	24.5	15.0	18.5	24.0	14.0	19.0	25.5	16.0	20.0	---	---	---
7	22.5	15.5	18.5	26.0	15.5	20.5	25.0	17.0	21.0	---	---	---
8	21.5	13.0	17.0	27.0	17.5	22.0	25.0	17.5	21.5	---	---	---
9	22.0	12.5	16.5	26.5	18.0	22.0	26.5	17.5	21.5	---	---	---
10	23.0	12.0	16.5	25.0	17.0	21.0	24.0	17.5	21.5	---	---	---
11	24.0	13.0	18.0	24.0	17.0	20.0	24.5	19.0	21.5	---	---	---
12	21.0	13.0	16.5	21.0	13.5	17.5	23.0	18.5	20.0	---	---	---
13	22.5	14.5	17.0	22.0	15.0	18.0	23.0	16.0	19.0	---	---	---
14	21.5	12.0	16.0	26.0	17.5	21.0	18.5	15.5	17.0	---	---	---
15	22.5	11.5	16.5	23.0	17.0	19.0	21.5	17.0	19.0	---	---	---
16	16.0	12.5	14.5	22.5	15.0	18.5	23.5	17.0	19.5	---	---	---
17	17.5	12.5	14.5	22.5	15.0	18.5	24.5	15.5	19.5	---	---	---
18	14.5	13.0	13.5	25.0	14.0	19.5	18.5	16.5	17.5	---	---	---
19	18.0	13.5	15.0	24.5	15.5	20.0	19.0	16.5	17.5	---	---	---
20	19.0	14.0	16.0	24.0	16.5	20.0	---	---	---	---	---	---
21	20.5	15.0	17.0	20.0	17.0	18.0	---	---	---	---	---	---
22	21.0	16.0	18.0	25.0	15.0	19.5	---	---	---	---	---	---
23	22.0	14.5	17.5	24.0	15.5	19.5	---	---	---	---	---	---
24	22.0	13.5	17.5	25.5	15.0	20.0	---	---	---	---	---	---
25	23.0	13.5	18.0	20.0	16.0	18.5	---	---	---	---	---	---
26	22.5	15.0	18.5	25.5	17.5	21.0	---	---	---	14.5	11.5	13.0
27	24.0	16.5	19.5	24.0	19.0	21.5	---	---	---	13.5	12.0	12.0
28	20.5	17.0	18.5	26.5	17.0	21.0	---	---	---	18.0	13.0	15.0
29	24.0	16.0	19.5	22.5	17.0	19.0	---	---	---	15.5	12.0	14.0
30	25.0	15.0	19.5	25.0	15.0	19.5	---	---	---	15.5	9.5	12.0
31	---	---	---	24.5	15.5	20.5	---	---	---	---	---	---
MONTH	25.0	9.0	17.0	27.0	13.5	20.0	---	---	---	---	---	---

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'43", long 77°09'02", Lycoming County, on left bank 100 ft (305 m) upstream from confluence with Steam Valley Run, near intersection of U.S. Route 15 and State Highway 284.

DRAINAGE AREA.--22.3 mi^2 (57.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: March to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 27.5°C Aug. 9; minimum, 0.5°C Mar. 23-24.
Turbidity: Maximum daily, 800 JTU Aug. 18; minimum daily, 1 JTU on many days.

Period of record:
Water temperatures: Maximum, 27.5°C Aug. 9, 1973; minimum, 0.5°C Mar. 23-24, 1973.
Turbidity: Maximum daily, 800 JTU Aug. 18, 1973; minimum daily, 1 JTU on many days.

REMARKS.--Sediment data for this station on page 377. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 11...	1155	1.7	3.5	70	0	19	2.2	12	1.4	52	0
FEB. 20...	1405	8.0	4.6	40	0	13	.7	7.1	1.0	25	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 11...	43	14	15	.0	.32	.06	.21	.27	.33	.33
FEB. 20...	21	15	11	.0	1.0	.05	.54	.59	.44	.40

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	97	95	56	14	171	7.6	8.5	0	2.1	3.0
FEB. 20...	68	65	35	15	120	6.9	.0	2	5.0	2.5

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.0	7.0	7.5	12.0	8.0	10.0
2	---	---	---	---	---	---	7.5	6.0	7.0	13.0	9.5	11.5
3	---	---	---	---	---	---	7.5	5.5	6.5	13.0	10.0	11.5
4	---	---	---	---	---	---	5.5	4.5	5.0	9.5	7.5	8.5
5	---	---	---	---	---	---	7.5	4.0	5.5	11.5	7.0	8.5
6	---	---	---	---	---	---	8.5	3.5	6.0	15.0	7.0	10.5
7	---	---	---	---	---	---	10.0	5.0	7.5	16.5	7.5	11.5
8	---	---	---	---	---	---	8.5	4.0	6.0	12.0	10.0	10.5
9	---	---	---	---	---	---	9.5	2.5	6.0	14.5	10.5	12.0
10	---	---	---	---	---	---	7.0	3.5	5.5	16.0	10.5	12.5
11	---	---	---	---	---	---	7.0	2.0	4.0	14.5	10.5	12.5
12	---	---	---	---	---	---	6.5	1.5	3.5	13.0	9.0	10.5
13	---	---	---	---	---	---	8.5	1.5	4.5	11.0	9.0	9.5
14	---	---	---	---	---	---	10.0	1.5	5.5	12.5	7.5	10.0
15	---	---	---	---	---	---	11.5	2.0	6.5	13.0	9.0	10.5
16	---	---	---	---	---	---	13.0	4.5	8.5	15.5	7.0	11.0
17	---	---	---	9.5	6.0	6.5	11.5	9.0	10.0	10.5	7.0	9.0
18	---	---	---	3.5	1.5	2.5	13.5	9.0	11.0	9.5	6.5	8.0
19	---	---	---	4.0	1.5	2.5	12.5	9.5	11.0	13.0	5.5	9.5
20	---	---	---	7.0	2.0	3.5	17.5	9.0	13.0	10.5	9.0	9.5
21	---	---	---	6.0	1.0	3.0	15.0	9.0	12.0	11.0	9.0	9.5
22	---	---	---	3.5	1.5	2.0	17.0	10.5	13.5	15.0	7.5	11.0
23	---	---	---	7.0	0.5	3.0	13.0	10.5	12.0	11.0	9.5	10.5
24	---	---	---	8.5	0.5	4.0	15.0	9.0	11.5	11.0	9.5	10.5
25	---	---	---	6.0	2.0	4.0	10.0	7.5	9.0	12.5	9.5	11.0
26	---	---	---	5.5	4.0	5.0	9.0	8.5	9.0	11.0	10.0	10.5
27	---	---	---	9.0	2.5	5.5	9.0	8.0	8.5	10.5	9.5	10.0
28	---	---	---	9.0	2.0	5.0	9.0	7.5	8.0	14.0	9.5	11.5
29	---	---	---	8.5	3.5	5.5	12.5	6.5	8.5	14.5	11.5	12.5
30	---	---	---	7.0	5.0	6.0	12.5	6.0	9.0	14.0	10.5	12.0
31	---	---	---	8.0	5.5	7.0	---	---	---	13.0	11.0	12.0
MONTH	---	---	---	---	---	---	17.5	1.5	8.0	16.5	5.5	10.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	9.5	12.5	23.5	16.5	20.0	21.0	20.0	20.5	24.0	18.5	21.0
2	16.5	12.0	14.0	24.5	17.5	21.0	24.5	19.5	21.5	24.0	19.5	22.0
3	16.5	11.0	14.0	21.0	20.0	20.5	24.5	19.5	21.5	25.5	20.0	22.5
4	19.5	13.5	16.0	25.5	18.5	22.0	26.0	19.0	22.0	24.5	20.0	22.0
5	21.0	13.5	16.5	23.0	20.0	21.5	26.5	17.5	21.5	25.0	20.0	22.5
6	21.5	14.5	17.5	24.0	17.0	20.5	26.5	17.0	21.5	22.0	19.0	20.5
7	21.0	15.5	18.0	26.5	17.5	22.0	26.5	18.0	22.0	21.0	16.0	18.5
8	21.0	13.5	17.0	27.0	20.0	23.5	26.5	19.5	22.5	21.0	15.0	17.5
9	21.5	14.0	17.5	25.5	20.5	22.5	27.5	20.0	23.5	19.5	14.5	16.5
10	23.0	14.0	18.5	25.0	18.5	22.0	26.0	21.0	23.0	21.0	13.0	16.5
11	24.0	15.5	19.5	24.5	18.0	21.0	27.0	20.5	23.0	18.5	14.0	16.5
12	21.0	16.5	18.5	22.5	15.5	18.5	25.0	20.0	21.5	20.0	14.0	16.5
13	22.5	16.5	18.5	23.0	16.5	19.5	25.0	17.5	21.0	17.5	12.5	15.0
14	21.5	14.0	17.5	27.0	19.5	22.5	20.0	17.5	18.5	16.0	15.0	15.5
15	22.0	13.5	17.5	24.0	19.5	21.5	22.0	18.5	20.0	20.0	15.5	17.0
16	17.5	14.5	16.0	23.0	17.5	20.0	23.5	18.0	20.5	17.5	14.0	16.0
17	17.5	14.0	15.5	22.0	17.5	19.5	25.5	18.0	21.5	15.5	12.0	14.0
18	15.5	14.0	14.5	25.5	16.5	21.0	21.0	17.0	19.0	16.0	13.5	14.5
19	17.0	14.5	15.5	25.0	18.0	21.5	19.0	17.0	17.5	16.5	11.0	13.5
20	19.0	15.0	17.0	24.0	18.5	21.5	19.5	16.0	17.5	14.5	11.5	13.0
21	20.0	16.0	17.5	21.0	19.0	20.0	17.5	16.5	17.0	16.0	10.5	13.0
22	20.0	16.0	17.5	24.0	17.5	20.5	17.5	15.0	16.5	14.5	11.5	12.5
23	21.0	16.0	18.5	23.5	18.0	20.5	20.5	13.5	16.5	18.5	13.5	15.5
24	21.0	16.0	18.5	26.0	18.0	21.5	18.0	15.0	16.5	17.0	13.0	14.5
25	22.0	16.0	19.0	21.0	18.0	20.0	21.0	14.0	17.5	14.5	13.5	14.0
26	21.5	17.0	19.0	24.5	19.5	21.5	21.5	16.5	19.0	15.5	13.5	14.5
27	23.5	17.5	20.5	24.0	20.0	22.0	23.5	18.0	20.5	19.5	13.0	15.5
28	21.0	18.5	19.5	25.5	18.5	22.0	26.0	19.0	22.0	17.5	15.0	16.0
29	22.5	17.5	20.0	22.0	19.5	20.5	25.0	18.0	21.5	16.0	14.0	15.5
30	24.0	17.0	20.0	24.5	17.0	20.5	25.5	19.5	22.0	16.5	12.5	14.0
31	---	---	---	25.0	17.5	21.5	24.0	19.5	21.5	---	---	---
MONTH	24.0	9.5	17.5	27.0	15.5	21.0	27.5	13.5	20.5	25.5	10.5	16.5

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	1	1	3	2	9	35	2	1	2	2	1
2	1	2	1	2	750	55	8	1	2	2	2	1
3	1	1	2	2	10	20	3	1	2	2	2	1
4	1	1	1	3	5	15	70	1	10	2	2	1
5	1	1	7	2	3	3	6	1	9	2	2	2
6	1	1	320	2	2	2	3	1	25	1	2	270
7	2	1	8	3	1	2	3	1	9	1	3	8
8	1	55	4	3	3	10	4	1	1	1	3	3
9	1	10	4	2	2	2	3	1	1	2	2	2
10	1	2	3	1	2	1	9	15	1	1	2	3
11	1	1	3	1	2	1	20	3	1	1	2	1
12	1	1	3	1	2	1	3	2	9	1	2	1
13	1	1	4	1	2	1	2	2	1	2	2	1
14	1	230	3	1	1	25	2	1	1	2	2	60
15	1	7	3	1	1	75	1	3	1	5	85	20
16	1	3	3	1	1	6	2	1	1	6	10	2
17	1	1	3	1	2	750	1	5	1	1	4	2
18	1	1	3	2	2	15	2	2	1	1	800	80
19	1	1	3	8	2	5	1	1	1	1	20	2
20	1	1	3	2	2	3	1	50	1	1	20	2
21	1	1	7	1	1	4	1	4	7	9	8	2
22	2	1	200	190	1	3	2	3	4	3	3	7
23	1	1	4	3	2	2	2	2	1	2	2	120
24	1	1	3	2	2	45	1	2	1	1	2	3
25	1	1	3	2	2	3	2	2	1	1	1	2
26	1	75	7	2	1	2	1	1	1	2	1	2
27	1	3	3	8	1	30	25	2	1	45	1	2
28	1	2	2	2	1	2	6	60	2	3	1	2
29	2	2	2	2	---	2	3	4	20	2	1	2
30	2	1	1	2	---	2	2	3	2	2	1	2
31	1	---	8	1	---	3	---	2	---	1	3	---

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'39", long 77°09'03", Lycoming County, on right bank at upstream end of bridge on State Highway 284, 500 ft (152 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--5.34 mi^2 (13.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: February to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 25.0°C July 8, Aug. 11; minimum, 0.5°C on many days during February and March.
Turbidity: Maximum daily, 240 JTU Aug. 18; minimum daily, 1 JTU on many days.

Period of record:
Water temperatures: Maximum, 25.0°C July 8, Aug. 11, 1973; minimum, 0.5°C on many days during February and March 1973.
Turbidity: Maximum daily, 240 JTU Aug. 18, 1973; minimum daily, 1 JTU on many days.

REMARKS.--Sediment data for this station on page 380. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 11...	1120	.64	4.1	60	20	12	1.7	7.4	.6	27	0
FEB. 20...	1420	5.2	3.6	30	0	5.1	.8	4.2	.4	9	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 11...	22	7.0	14	.2	.14	.08	.03	.11	.04	.02
FEB. 20...	7	7.5	7.5	.0	.16	.01	.10	.11	.01	.00

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	70	61	37	15	115	7.3	7.0	0	2.2	3.5
FEB. 20...	30	34	16	9	60	6.6	.0	0	3.6	2.5

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.5	0.5	1.0	8.0	7.5	7.5	11.0	8.5	10.0
2	---	---	---	3.5	0.5	1.5	8.0	7.0	7.5	12.0	9.5	11.0
3	---	---	---	3.0	1.5	2.0	8.0	6.5	7.0	12.0	9.5	10.5
4	---	---	---	4.0	2.0	3.0	6.5	6.0	6.5	---	---	---
5	---	---	---	4.5	3.5	4.0	7.5	5.5	6.5	---	---	---
6	---	---	---	4.5	4.0	4.0	8.5	5.5	7.0	---	---	---
7	5.0	4.0	4.5	5.0	4.0	5.0	9.0	6.5	7.5	---	---	---
8	4.5	1.5	3.5	7.5	5.0	6.0	7.5	5.0	6.5	10.5	10.0	10.5
9	2.0	0.5	1.0	7.5	4.0	5.5	9.0	4.5	6.5	13.0	10.5	11.0
10	1.5	0.5	0.5	7.5	5.0	6.0	7.0	5.0	6.0	14.0	10.5	12.0
11	0.5	0.5	0.5	6.5	5.5	6.0	6.5	4.0	5.0	13.0	10.0	11.5
12	0.5	0.5	0.5	7.0	6.5	6.5	6.5	3.5	5.0	11.5	9.0	10.0
13	0.5	0.5	0.5	8.5	---	---	7.5	3.5	5.0	10.5	9.0	9.5
14	0.5	0.5	0.5	---	---	---	9.0	3.5	6.0	---	---	---
15	0.5	0.5	0.5	---	---	---	10.0	4.0	7.0	---	---	---
16	0.5	0.5	0.5	---	---	---	12.0	5.5	8.5	---	---	---
17	0.5	0.5	0.5	---	---	---	10.5	9.0	9.5	---	---	---
18	0.5	0.5	0.5	---	---	---	12.0	9.0	10.5	---	---	---
19	0.5	0.5	0.5	---	---	---	12.5	9.5	11.0	---	---	---
20	0.5	0.5	0.5	---	---	---	15.5	9.5	12.5	11.0	10.0	10.5
21	2.0	0.5	1.5	6.0	3.0	4.0	14.0	10.0	12.0	11.0	9.5	10.5
22	2.0	1.0	1.5	4.5	3.0	3.5	15.5	11.0	13.0	12.5	9.0	11.0
23	2.0	0.5	1.0	---	---	---	13.0	10.5	12.0	11.0	10.5	10.5
24	1.5	0.5	1.0	---	---	---	14.0	10.0	11.5	11.0	10.5	11.0
25	1.5	0.5	0.5	---	---	---	11.0	9.0	9.5	12.0	10.5	11.0
26	2.0	0.5	1.0	---	---	---	9.5	9.0	9.0	11.0	10.5	11.0
27	1.5	0.5	0.5	---	---	6.5	9.0	9.0	9.0	11.0	10.5	10.5
28	1.5	0.5	0.5	8.0	3.0	5.5	9.5	8.0	8.5	12.5	10.5	11.5
29	---	---	---	8.0	4.5	6.0	10.5	7.0	8.5	13.0	11.5	12.0
30	---	---	---	7.0	6.0	6.5	11.0	7.0	9.0	12.5	11.0	11.5
31	---	---	---	7.5	6.5	7.0	---	---	---	12.0	11.0	11.5
MONTH	5.0	0.5	1.0	---	---	---	15.5	3.5	8.5	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	10.0	11.5	21.0	15.5	17.5	19.0	18.0	18.5	21.0	16.0	18.0
2	14.0	11.5	12.5	21.5	16.0	18.5	21.0	18.0	19.0	21.0	17.0	18.5
3	14.0	11.0	12.5	18.5	17.0	18.0	22.0	17.5	19.5	22.0	17.0	19.0
4	16.0	12.5	14.0	23.0	17.0	19.0	23.5	17.5	19.5	21.5	17.0	19.0
5	17.5	12.5	14.5	21.0	17.0	18.5	23.0	17.0	19.0	22.0	17.5	19.0
6	17.5	13.5	15.0	22.0	15.5	18.0	23.5	16.5	19.5	20.5	16.5	18.0
7	16.5	13.5	15.0	24.0	16.0	19.0	23.5	17.5	20.0	19.0	15.0	16.5
8	16.0	12.5	14.0	25.0	17.5	20.5	24.0	18.5	21.0	19.0	14.0	15.5
9	17.0	13.0	14.5	23.5	18.0	20.0	24.5	19.0	21.5	17.0	13.5	15.0
10	17.0	13.0	14.5	22.0	17.0	19.0	24.0	20.0	21.5	18.5	12.5	14.5
11	18.0	13.5	15.5	22.0	16.5	18.5	25.0	20.0	21.5	17.0	12.5	14.5
12	17.5	14.5	15.5	20.5	14.5	17.0	23.0	19.0	20.5	18.0	12.5	14.0
13	18.0	14.5	15.5	21.0	15.5	17.5	23.5	18.0	20.0	16.0	11.5	13.5
14	18.0	13.0	15.0	24.5	17.5	20.0	19.0	17.5	18.5	14.5	13.5	14.0
15	18.0	12.5	15.0	21.5	17.5	19.0	21.0	18.0	19.0	17.0	14.0	15.0
16	15.5	13.5	14.5	21.0	16.5	18.0	22.5	18.0	19.5	16.0	13.0	14.0
17	16.0	13.0	14.0	20.0	16.5	18.0	24.0	17.5	20.0	14.0	12.0	13.0
18	14.0	13.5	14.0	23.5	15.5	18.5	19.5	15.5	18.0	14.5	12.0	13.5
19	15.5	13.5	14.5	23.0	17.0	19.5	15.5	14.0	14.5	13.0	11.0	12.0
20	17.5	14.0	15.5	22.0	17.5	19.5	15.0	13.5	14.0	13.0	11.0	11.5
21	17.5	15.0	16.0	19.5	17.5	18.0	14.0	13.5	14.0	12.5	9.5	11.0
22	18.0	15.5	16.5	22.0	16.5	18.5	14.5	12.5	13.5	12.5	10.0	11.5
23	19.5	15.0	17.0	21.0	17.0	18.5	15.0	11.5	13.0	15.5	12.5	13.5
24	20.0	15.0	17.0	24.0	17.0	19.5	14.5	12.5	13.5	14.0	12.0	13.0
25	20.0	15.5	17.5	19.5	17.0	18.5	16.5	12.5	14.0	13.0	12.5	12.5
26	21.0	16.0	18.0	22.0	18.0	20.0	17.0	14.0	15.5	13.5	12.5	13.0
27	22.0	17.0	19.0	21.0	19.0	20.0	18.5	15.0	16.5	16.0	12.0	14.0
28	19.0	17.0	18.0	23.0	17.5	20.0	21.0	16.0	17.5	15.0	13.5	14.0
29	20.0	16.5	17.5	20.5	17.5	19.0	21.0	16.0	18.0	14.0	12.5	13.5
30	21.0	15.5	17.5	23.0	17.0	19.0	21.0	16.5	18.0	14.5	11.0	12.5
31	---	---	---	22.5	17.0	19.0	21.0	16.5	18.0	---	---	---
MONTH	22.0	10.0	15.5	25.0	14.5	19.0	25.0	11.5	18.0	22.0	9.5	14.5

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	1	1	2	1	3	2	1	1	1	1	1
2	1	2	1	3	95	25	2	1	1	1	2	1
3	1	1	1	3	30	25	2	1	1	4	1	1
4	1	1	1	3	10	7	10	1	10	1	1	1
5	1	1	2	2	2	3	1	1	3	2	1	1
6	1	1	80	2	1	1	1	1	7	1	1	30
7	1	1	20	2	1	2	1	1	2	1	1	1
8	1	20	3	2	1	6	1	1	1	1	1	1
9	1	2	2	2	1	3	1	3	1	85	1	1
10	1	1	2	2	1	1	2	8	1	1	1	1
11	1	1	1	2	1	1	1	6	1	1	2	1
12	1	1	1	1	1	1	1	2	8	1	3	1
13	1	1	1	1	1	1	1	2	2	1	2	1
14	1	70	1	1	1	7	1	1	1	2	2	10
15	1	3	1	1	1	25	1	2	1	7	10	2
16	1	1	1	1	1	2	1	1	2	1	1	2
17	1	1	2	1	1	75	1	2	1	1	1	1
18	1	1	2	1	1	9	1	1	2	1	240	20
19	1	1	2	10	1	2	1	1	1	1	15	2
20	1	1	1	2	1	1	1	9	1	1	5	1
21	1	1	2	10	1	1	1	2	15	7	2	1
22	2	1	15	60	1	1	1	2	1	1	2	10
23	1	1	5	10	1	1	1	1	1	1	2	8
24	1	1	4	5	1	1	1	1	1	1	1	1
25	1	1	4	2	1	1	1	1	1	1	1	1
26	1	20	4	1	1	1	2	1	1	8	1	1
27	1	2	4	10	1	1	7	1	1	50	1	1
28	2	1	4	2	1	15	2	15	25	1	1	1
29	1	1	3	2	---	1	5	1	10	1	1	1
30	1	1	3	1	---	1	1	2	1	1	1	1
31	1	---	3	1	---	1	---	1	---	1	1	---

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.

LOCATION.--Lat 41°28'25", long 77°13'52", Lycoming County, on right bank just downstream from bridge on State Highway 284, 0.7 mile (1.1 km) upstream from Blacks Creek, 1.7 mile (2.7 km) upstream from confluence with Texas Creek, and 5 miles (8 km) northeast of English Center.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: April to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Water temperatures: Maximum, 27.5°C July 8, Aug. 9; minimum, 6.0°C May 19.
Turbidity: Maximum daily, 480 JTU Feb. 2; minimum daily, 1 JTU on many days.

Period of record:
Water temperatures: Maximum, 27.5°C July 8, Aug. 9, 1973; minimum, 6.0°C May 19, 1973.
Turbidity: Maximum daily, 480 JTU Feb. 2, 1973; minimum daily, 1 JTU on many days.

REMARKS.--Sediment data for this station on page 383. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 11...	1025	3.8	2.0	3	0	12	1.7	7.2	1.0	31	0
FEB. 20...	1530	13	4.2	80	0	9.0	1.2	4.4	.7	16	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT. 11...	25	12	12	.0	.02	.02	.04	.06	.04	.03
FEB. 20...	13	11	7.5	.1	.57	.02	.32	.34	.12	.12

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	64	63	37	12	118	7.4	7.0	0	2.0	2.5
FEB. 20...	51	46	27	14	86	7.0	.0	0	2.6	2.5

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	1.5	8.0	10.0
2	---	---	---	---	---	---	---	---	---	12.5	9.5	11.0
3	---	---	---	---	---	---	---	---	---	12.0	10.0	11.0
4	---	---	---	---	---	---	---	---	---	10.0	7.5	9.0
5	---	---	---	---	---	---	---	---	---	10.5	7.0	8.5
6	---	---	---	---	---	---	---	---	---	14.5	7.0	11.0
7	---	---	---	---	---	---	---	---	---	16.0	8.5	12.0
8	---	---	---	---	---	---	---	---	---	12.5	10.5	11.0
9	---	---	---	---	---	---	---	---	---	14.0	10.5	12.0
10	---	---	---	---	---	---	---	---	---	14.5	11.0	12.5
11	---	---	---	---	---	---	---	---	---	13.5	10.5	12.0
12	---	---	---	---	---	---	---	---	---	12.5	9.0	10.5
13	---	---	---	---	---	---	---	---	---	10.5	9.0	9.5
14	---	---	---	---	---	---	---	---	---	12.0	8.0	10.0
15	---	---	---	---	---	---	---	---	---	12.0	9.0	10.5
16	---	---	---	---	---	---	---	---	---	14.5	7.5	11.0
17	---	---	---	---	---	---	---	---	---	11.0	7.5	9.0
18	---	---	---	---	---	---	---	---	---	9.0	7.0	8.0
19	---	---	---	---	---	---	---	---	---	12.5	6.0	9.5
20	---	---	---	---	---	---	---	---	---	10.5	9.0	9.5
21	---	---	---	---	---	---	---	---	---	10.5	9.0	9.5
22	---	---	---	---	---	---	---	---	---	14.0	8.0	11.0
23	---	---	---	---	---	---	---	---	---	11.0	9.5	10.5
24	---	---	---	---	---	---	---	---	---	10.5	9.5	10.0
25	---	---	---	---	---	---	---	---	---	12.0	9.5	10.5
26	---	---	---	---	---	---	---	---	---	11.0	10.0	10.5
27	---	---	---	---	---	---	---	---	---	10.0	9.5	10.0
28	---	---	---	---	---	---	9.0	7.5	8.5	13.0	9.5	11.0
29	---	---	---	---	---	---	11.5	7.0	9.0	13.0	11.0	12.0
30	---	---	---	---	---	---	11.5	6.5	9.0	13.0	10.0	11.5
31	---	---	---	---	---	---	---	---	---	12.5	10.5	11.5
MONTH	---	---	---	---	---	---	---	---	---	16.0	6.0	10.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	9.5	12.0	23.0	17.0	20.0	21.0	20.0	20.0	23.0	19.0	21.0
2	15.5	12.0	13.5	24.0	17.5	21.0	23.5	19.5	21.0	24.0	20.5	22.0
3	15.5	11.5	13.5	20.5	19.0	20.0	24.0	19.5	21.5	25.5	20.5	22.5
4	17.5	13.0	15.0	25.5	18.5	21.5	25.5	19.0	22.0	24.5	20.5	22.5
5	19.0	13.5	16.0	24.0	19.5	21.5	26.0	18.5	22.0	25.0	20.5	22.5
6	20.0	14.5	17.0	25.0	17.0	20.5	26.0	18.0	21.5	22.0	18.5	20.5
7	19.5	15.5	17.0	26.5	17.5	22.0	26.0	18.5	18.5	20.5	16.0	18.5
8	19.0	13.5	16.0	27.5	20.0	23.5	26.0	20.0	20.0	21.0	16.0	18.0
9	19.0	14.0	16.5	26.5	20.5	23.0	27.5	20.5	20.5	19.0	15.5	17.0
10	21.0	14.5	17.5	24.5	19.5	22.0	25.5	21.0	21.0	20.5	14.0	16.5
11	22.0	15.5	18.5	25.0	19.0	21.5	26.5	21.0	23.0	18.5	14.5	16.5
12	20.5	16.5	18.0	23.0	16.0	19.0	24.0	20.0	21.5	19.0	14.0	16.0
13	21.0	16.0	17.5	24.0	17.0	20.0	24.5	19.0	21.5	17.5	13.0	15.5
14	21.0	14.5	17.5	26.5	19.0	22.5	20.0	18.5	19.0	15.5	15.0	15.5
15	21.0	14.0	17.0	23.5	19.5	21.0	21.0	18.0	19.0	18.0	15.0	16.5
16	17.0	15.0	16.0	23.0	14.0	20.0	23.0	18.5	20.0	---	---	---
17	17.0	14.0	15.5	21.0	17.5	19.5	24.0	18.5	21.0	---	---	---
18	15.5	14.0	14.5	26.0	17.0	21.0	20.5	16.5	18.5	---	---	---
19	16.0	14.0	15.0	26.0	18.5	21.5	17.0	15.5	16.5	---	---	---
20	18.0	15.0	16.0	24.0	19.0	21.5	17.5	15.5	16.5	---	---	---
21	18.5	16.0	17.0	21.0	19.0	19.5	17.0	16.0	16.5	---	---	---
22	19.5	16.5	18.0	24.0	18.0	20.5	16.5	14.5	16.0	---	---	---
23	21.5	16.5	18.5	23.5	18.5	20.5	18.5	13.5	16.0	---	---	---
24	22.5	17.0	19.0	26.0	18.0	21.5	16.5	15.0	16.0	---	---	---
25	23.5	17.0	19.5	21.0	12.0	18.5	20.0	14.5	17.0	---	---	---
26	22.5	17.5	19.5	25.0	19.5	21.5	21.0	16.0	18.5	---	---	---
27	24.0	18.5	21.0	22.5	20.0	21.0	22.0	17.5	19.5	---	---	---
28	21.5	18.5	20.0	24.5	19.0	21.5	25.0	18.5	21.5	---	---	---
29	21.0	17.5	19.5	22.0	19.5	20.5	24.5	19.0	21.5	---	---	---
30	24.0	17.5	20.0	25.0	17.5	20.5	25.0	20.5	22.0	---	---	---
31	---	---	---	24.5	18.0	21.0	24.0	20.5	21.5	---	---	---
MONTH	24.0	9.5	17.0	27.5	12.0	21.0	27.5	13.5	19,5	---	---	---

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	1	1	2	2	4	15	1	2	3	3	2
2	1	2	1	2	480	10	8	1	2	3	5	1
3	1	1	1	15	50	7	2	1	1	4	3	1
4	1	1	1	4	6	6	40	1	6	4	4	1
5	1	1	2	2	3	5	6	1	5	5	3	1
6	1	1	95	2	2	4	2	1	7	4	2	150
7	1	1	6	1	2	3	2	1	10	4	1	4
8	1	10	4	1	2	5	2	1	1	3	1	2
9	1	5	3	1	1	3	1	2	1	5	1	2
10	1	2	2	1	1	2	2	5	1	4	2	2
11	1	1	2	1	1	2	1	3	1	3	2	2
12	1	1	2	1	1	2	1	1	3	3	3	1
13	1	1	3	1	1	1	1	1	3	3	3	1
14	1	65	2	1	1	10	1	1	2	3	5	25
15	1	6	2	1	2	40	1	2	2	5	35	15
16	1	3	2	1	2	6	1	1	2	3	6	2
17	1	2	2	1	2	340	1	6	2	2	2	1
18	1	1	2	1	2	15	1	2	2	2	440	40
19	1	1	2	1	2	6	1	1	2	2	10	4
20	1	2	2	1	2	3	1	30	2	2	15	2
21	1	1	3	1	2	2	1	7	4	10	6	1
22	1	1	55	70	1	2	1	2	3	2	3	1
23	1	1	6	6	1	2	1	1	2	1	2	40
24	1	1	5	3	1	2	1	1	2	1	2	3
25	1	1	4	3	1	3	1	1	2	1	2	3
26	1	10	4	2	1	3	1	1	2	2	2	2
27	1	3	4	2	1	2	9	1	2	30	2	2
28	1	2	4	2	1	2	4	40	3	5	2	1
29	1	1	3	2	---	2	2	6	6	3	1	1
30	1	1	2	2	---	1	1	2	3	3	1	1
31	1	---	3	2	---	1	---	2	---	4	1	---

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.

LOCATION.--Lat 41°04'53", long 76°51'50", Northumberland County, at bridge at Watsontown 100 ft (305 m) upstream from White Deer Creek and 0.8 mile (1.3 km) upstream from Warrior Run.

DRAINAGE AREA.--6,550 mi^2 (17,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 368 micromhos Oct. 19; minimum daily, 92 micromhos Mar. 18.
Water temperatures: Maximum daily, 26.5°C Sept. 4; minimum daily, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum daily, 368 micromhos Oct. 19, 1972; minimum daily, 92 micromhos Mar. 18, 1973.
Water temperatures: Maximum daily, 26.5°C Sept. 4, 1973; minimum daily, freezing point on many days during winter period.

REMARKS.--Sediment data for this station on page 386. Records of discharge are based on records for 01553500 West Branch Susquehanna River at Lewisburg, Pa.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	362	160	145	177	248	155	141	132	176	---	---
2	330	365	160	147	170	255	144	126	131	184	---	---
3	338	360	162	151	106	239	133	129	134	198	---	---
4	350	327	161	148	119	231	141	128	136	192	---	195
5	351	344	158	158	101	217	125	130	139	171	---	209
6	340	344	135	161	120	196	117	128	143	177	---	206
7	344	245	153	172	126	173	118	139	135	183	---	193
8	360	211	111	189	131	141	111	145	135	184	221	191
9	357	149	108	---	139	153	111	147	139	189	219	204
10	351	174	110	---	148	130	123	151	155	202	245	187
11	364	183	120	---	160	130	123	143	137	204	247	193
12	358	190	133	---	170	131	129	155	147	205	239	189
13	348	207	134	---	172	133	131	130	147	203	238	194
14	323	201	136	---	172	134	136	129	152	202	231	167
15	346	144	139	---	177	129	138	---	163	219	247	157
16	349	121	145	213	183	123	140	---	159	216	210	167
17	354	139	151	219	---	114	142	---	173	218	208	200
18	352	136	149	220	---	92	144	129	173	236	187	183
19	368	130	158	223	---	95	147	131	174	235	166	189
20	355	132	169	221	---	98	149	133	175	241	119	218
21	344	134	175	220	---	105	150	131	186	---	123	216
22	350	136	172	250	220	111	161	117	191	208	128	220
23	342	150	150	180	---	120	165	119	193	220	137	207
24	342	155	133	197	---	132	167	122	193	212	152	193
25	344	170	119	206	---	137	162	126	183	240	217	196
26	327	167	120	191	219	141	162	---	189	---	215	207
27	336	134	126	198	224	139	163	---	188	---	196	189
28	356	149	134	188	241	144	171	---	187	---	189	202
29	358	154	141	181	---	151	155	134	188	---	184	203
30	354	172	149	185	---	156	149	126	169	---	173	216
31	356	---	152	192	---	158	---	126	---	---	---	---

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	7.6	7.1	6.8	---	---	---	---	7.0	7.2	---	---
2	7.6	7.5	7.2	6.8	---	---	---	---	7.0	7.1	---	---
3	7.5	7.4	7.1	6.8	---	---	---	---	7.0	6.8	---	---
4	7.5	7.5	7.1	6.9	---	---	---	---	7.0	7.1	---	7.2
5	7.6	7.4	7.1	6.9	---	---	---	---	7.0	7.2	---	7.2
6	7.6	7.4	7.1	7.0	---	---	---	---	7.1	7.2	---	7.3
7	7.4	7.3	6.8	7.0	---	---	---	---	7.0	7.3	---	7.3
8	7.5	7.4	6.7	7.0	---	---	---	---	7.1	7.2	7.2	7.3
9	7.5	7.5	6.8	---	---	---	---	---	7.2	7.2	7.3	7.2
10	7.4	7.5	6.9	---	---	---	---	---	7.0	7.3	7.2	7.3
11	7.4	7.4	6.9	---	---	---	---	---	7.0	7.3	7.3	7.2
12	7.6	7.5	6.8	---	---	---	---	---	7.1	7.1	7.4	7.2
13	7.7	7.5	6.8	---	---	---	---	---	7.1	7.1	7.3	7.2
14	7.6	7.6	6.7	---	---	---	---	---	7.1	7.2	7.3	7.2
15	7.5	7.6	6.6	---	---	---	---	---	6.9	7.3	7.4	7.1
16	7.4	7.1	6.6	7.2	---	---	---	---	6.9	7.3	7.3	7.2
17	7.4	6.9	6.7	7.2	---	---	---	6.9	6.9	7.3	7.2	7.3
18	7.5	7.2	6.8	7.2	---	---	---	6.9	7.0	7.4	7.1	7.4
19	7.4	7.1	6.8	7.1	---	---	---	6.9	7.1	7.2	7.0	7.5
20	7.5	7.1	6.8	---	---	---	---	7.0	7.1	7.3	7.0	7.4
21	7.5	7.1	6.9	---	---	---	---	7.0	7.1	---	7.0	7.5
22	7.6	7.1	6.8	---	---	---	---	7.0	7.1	7.5	7.0	7.5
23	7.6	7.1	7.0	---	---	---	---	7.0	7.1	7.2	7.1	7.5
24	7.7	6.9	6.7	---	---	---	---	7.0	6.9	7.3	6.7	7.6
25	7.8	7.0	6.8	---	---	---	---	7.0	6.7	7.0	6.6	7.4
26	7.6	7.1	6.8	---	---	---	---	---	7.1	---	6.7	7.4
27	7.7	7.2	6.9	---	---	---	---	---	7.1	---	7.0	7.4
28	7.7	7.2	6.9	---	---	---	---	---	7.1	---	7.0	7.4
29	7.7	6.9	6.9	---	---	---	---	7.0	7.2	---	7.0	7.3
30	7.6	7.0	6.8	---	---	---	---	7.0	7.3	---	7.1	7.3
31	7.6	---	6.8	---	---	---	---	6.9	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.0	1.0	---	1.0	---	9.0	12.0	14.5	23.0	---	---
2	16.0	9.0	1.0	---	1.0	5.0	10.5	11.0	16.0	24.0	---	---
3	16.0	10.0	1.0	---	3.0	5.0	9.0	13.0	16.5	25.0	---	---
4	16.0	9.0	1.0	---	5.0	5.0	10.0	12.0	17.0	25.5	---	26.5
5	15.5	8.5	1.0	3.0	4.0	5.5	9.0	10.0	19.0	24.0	---	25.0
6	16.0	9.0	1.5	2.0	3.5	5.0	8.5	10.0	20.0	24.0	---	25.0
7	16.0	8.0	3.5	1.0	3.5	5.0	9.0	11.0	20.5	24.0	---	23.0
8	14.5	10.0	2.0	0.0	4.0	7.0	9.0	11.0	20.0	25.0	25.0	23.0
9	13.5	9.0	1.0	0.0	2.0	8.5	9.0	11.0	21.5	26.0	26.0	24.0
10	12.0	9.0	1.0	0.0	2.0	8.0	9.0	11.0	23.0	26.0	26.0	20.0
11	11.5	9.0	1.0	0.0	0.5	8.0	6.0	11.0	23.5	26.0	25.0	23.5
12	13.0	8.5	1.0	0.0	0.0	9.0	7.0	---	23.0	23.0	25.0	23.0
13	12.0	9.0	2.0	0.0	0.0	10.0	6.0	---	22.5	23.0	25.0	22.5
14	13.0	8.0	3.0	0.0	0.5	8.5	7.0	---	22.0	25.0	24.0	22.0
15	11.0	7.0	0.0	0.0	0.5	8.5	8.0	---	22.5	26.0	23.0	19.0
16	11.0	5.5	0.0	1.0	0.0	9.0	8.5	---	22.0	24.0	23.0	18.5
17	12.0	5.0	0.0	1.0	---	11.5	10.0	---	21.5	24.0	22.0	17.0
18	9.0	5.0	0.0	1.0	---	11.0	12.0	11.0	19.5	23.0	23.5	18.0
19	9.0	4.0	0.0	1.0	---	6.0	13.0	10.5	19.0	25.0	22.5	17.5
20	7.0	4.0	0.0	1.5	---	5.0	13.0	11.5	19.5	25.5	20.0	17.5
21	7.0	4.0	0.0	1.0	---	6.0	14.0	11.0	19.5	---	20.0	18.0
22	8.5	3.5	0.0	1.5	0.5	6.0	15.5	11.5	20.0	25.0	20.0	16.0
23	9.0	3.0	0.0	2.0	---	6.0	16.0	13.0	21.5	25.0	18.5	19.0
24	9.5	3.0	0.0	1.5	---	10.0	15.0	14.0	23.0	---	19.5	18.0
25	9.0	2.0	0.0	1.0	---	7.0	14.0	13.0	22.0	24.0	21.5	18.0
26	8.0	3.0	6.0	4.0	1.0	8.0	13.0	---	23.0	---	22.5	17.0
27	7.5	3.0	6.0	2.0	0.5	9.0	12.0	---	24.0	---	23.0	17.0
28	9.0	3.0	5.0	2.5	3.5	9.0	11.0	---	23.5	---	24.0	18.0
29	10.0	2.0	5.0	1.0	---	9.0	10.0	13.0	23.5	---	25.0	18.0
30	9.5	2.0	5.0	1.5	---	9.0	10.0	13.5	22.0	---	26.0	18.0
31	7.5	---	3.0	0.0	---	8.5	---	14.0	---	---	---	---

01553500 WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG, PA.

LOCATION.--Lat 40°58'02", long 76°52'45", Union County, at gaging station at downstream side of Market Street Bridge at Lewisburg, 0.2 mile (3.2 km) downstream from Buffalo Creek, and 7.4 miles (11.9 km) upstream from mouth.

DRAINAGE AREA.--6,850 mi^2 (17,700 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to June 1953, February 1956 to September 1958, May 1960 to September 1973.

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network. Unpublished miscellaneous samples of sediment data published for water years 1962-63 available at Harrisburg office. Miscellaneous samples of sediment data published for water years 1964-66.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 26...	1300	1670	320	8.0	10.0	13.0	1850	E33
NOV. 14...	1100	9780	190	6.9	7.3	10.8	1400	860
DEC. 11...	1110	37000	128	6.5	4.5	11.8	3200	500
JAN. 25...	1300	12400	202	7.4	3.0	13.4	4800	1400
FEB. 22...	1330	8350	215	6.9	2.0	13.6	1400	49
MAR. 29...	1330	14200	135	6.5	11.0	11.8	E75	E3
APR. 12...	1300	22600	140	6.9	7.0	12.6	1200	83
MAY 09...	1100	10900	155	6.6	15.0	11.0	10000	350
JUNE 20...	1330	7300	175	7.0	21.5	10.4	47000	2270
AUG. 07...	1230	3060	258	7.1	28.0	10.4	700	770
22...	1145	10300	125	7.5	18.0	10.1	9000	1300
SEP. 19...	1230	7900	179	6.7	18.0	11.0	12000	--

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
DEC. 11...	1110	--	330	852	11	3.9	--	6.4	--	14
MAR. 29...	1330	--	60	560	12	4.8	--	27	--	10
JUNE 20...	1330	5.0	160	500	19	6.4	3.5	--	1.1	24
AUG. 07...	1230	--	--	--	--	--	--	--	--	--
22...	1145	--	--	--	--	--	--	--	--	--
SEP. 19...	1230	--	--	--	--	--	--	--	--	25

01553500 WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR-RONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
DEC. 11...	0	11	36	5.1	--	.45	--	--	--	.05
MAR. 29...	--	8	48	34	--	.38	--	--	--	.01
JUNE 20...	0	20	50	4.8	.1	--	.59	.00	.60	--
AUG. 07...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
SEP. 19...	--	21	54	--	.2	.40	--	--	--	.08

DATE	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SUS-PENDED SOLIDS (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
DEC. 11...	--	--	.01	.01	--	77	--	--	27
MAR. 29...	--	--	.04	.01	--	93	--	--	8
JUNE 20...	--	--	.03	--	.01	117	105	--	--
AUG. 07...	--	--	--	--	--	158	--	3	--
22...	--	--	--	--	--	91	--	23	--
SEP. 19...	.27	.35	.04	.02	--	141	--	63	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDF (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 11...	44	33	--	--	5	16	--	7.1	2.0
MAR. 29...	50	42	--	--	1	5	--	5.1	3.0
JUNE 20...	74	54	.1	3.0	0	4	--	2.0	--
AUG. 07...	--	--	--	--	--	--	.8	--	--
22...	--	--	--	--	--	--	1.2	--	--
SEP. 19...	80	59	.0	2.0	--	E20	.7	8.0	10

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	CYANIDE (CN) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
SEP. 19...	1230	330	590	.01	0	0	0	0

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.

LOCATION.--Lat 40°50'04", long 76°49'37", Snyder County, on right bank at borough of Shamokin Dam, on grounds of Pennsylvania Power and Light Company generating plant, 1 mile (1.6 km) downstream from Shamokin Creek, and 1.8 mile (2.9 km) south of Sunbury.

DRAINAGE AREA.--18,300 mi^2 (47,400 km^2), approximately (excluding that of Shamokin Creek).

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1973.

REMARKS.--Operated as part of the USGS-EPA surveillance network.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
AUG. 30...	0930	5720	550	7.5	22.0	8.2	>15000	>5000
SEP. 27...	0945	4430	457	7.5	21.0	8.4	24000	970

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
SEP. 27...	0945	100	20	250	52	19	7.1	45	0	37	152

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TURBIDITY (JTU)
SEP. 27...	18	.79	.06	.07	.01	297	4	210	170	1

DATE	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP. 27...	2.3	5.5	0	1	1	7	0	.0	23	11

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 25...	1000	4020	445	7.5	10.0	8.8	4600	170
NOV. 14...	1010	43300	145	6.9	7.5	11.2	6400	2600
DEC. 11...	0950	66700	140	7.4	4.5	14.0	110000	1500
JAN. 24...	1030	38500	238	7.6	2.0	13.2	8800	700
FEB. 21...	0930	13900	338	6.9	2.5	12.6	9600	E70
MAR. 28...	1045	37800	185	6.8	9.5	11.8	12000	140
APR. 11...	1000	75500	160	6.7	7.0	11.8	15800	870
MAY 09...	0930	24500	200	6.5	15.0	11.6	24000	2400
JUNE 20...	1145	15300	245	7.1	22.0	10.2	27000	2000
AUG. 07...	1115	8050	360	7.4	28.0	12.8	1600	1100
22...	1030	15900	200	7.5	20.0	10.0	11600	2200
SEP. 19...	1030	17200	298	6.6	17.0	9.8	47000	--

DATE	TIME	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
DEC. 11...	0950	140	430	13	3.7	4.8	23	0	27	6.1	.68	.09
MAR. 28...	1045	280	380	16	4.8	12	34	--	42	8.3	.66	.09
JUNE 20...	1145	100	40	25	7.5	--	38	0	65	7.0	--	--
AUG. 07...	1115	--	--	--	--	--	--	--	--	--	--	--
22...	1030	--	--	--	--	--	--	--	--	--	--	--
SEP. 19...	1030	--	--	--	--	--	35	--	65	--	.50	.10

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 11...	.05	.05	84	103	--	48	29	15	54	--	4.0
MAR. 28...	.06	.03	108	21	--	60	32	6	11	--	3.0
JUNE 20...	.06	--	147	--	--	93	62	3	10	--	--
AUG. 07...	--	--	237	--	14	--	--	--	--	2.0	--
22...	--	--	163	--	562	--	--	--	--	1.6	--
SEP. 19...	.09	.05	190	--	140	102	73	--	50	1.9	12

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
JUNE 20...	1145	3.3	5.7	1.4	31	0	.1	.59	.00
SEP. 19...	1030	--	--	--	29	--	.0	--	--

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUNE 20...	.60	--	--	.01	137	.1	3.0	4.8
SEP. 19...	--	.40	.50	--	--	.0	2.0	14

DATE	TIME	CYANIDE (CN) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
SEP. 19...	1030	.00	1400	660	0	0	0	10	1

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 19...	1030	1300	<3.7	1.3	2.8	2.0	2.4	1.8

01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA.

LOCATION.--Lat 40°12'57", long 78°15'56", Bedford County, on left bank, 500 ft (152 m) downstream from bridge on State Highway 913, 0.5 mile (0.8 km) west of Saxton, and 1.5 mile (2.4 km) upstream from Shoup Run.

DRAINAGE AREA.--756 mi^2 (1,958 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY 25...	1145	343	110	1.5	.07	.89	.96	.10
SEP. 12...	1045	197	110	1.3	.07	.57	.64	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 25...	.08	315	7.9	27.0	7.8	23	280	3.5
SEP. 12...	.00	320	8.0	19.0	8.0	64	100	3.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 08...	1030	1029	82	.77	.06	.92	.98	.17	.05
JAN. 23...	1230	1960	58	.97	.09	.46	.55	.09	.07
MAR. 20...	1130	1800	38	1.4	.38	.56	.94	.03	.02
MAY 15...	1045	928	54	.99	.10	.38	.48	.02	.01
JULY 16...	1230	201	115	--	--	.22	.28	.02	--
SEP. 12...	1300	134	120	--	--	.10	.17	.00	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	230	7.6	9.0	10.4	E15000	E4600	--	10
JAN. 23...	150	7.3	1.0	13.8	7300	350	--	5.5
MAR. 20...	165	7.1	4.0	13.2	20	60	--	2.5
MAY 15...	175	7.7	12.5	10.4	20	100	--	4.0
JULY 16...	285	7.8	24.0	8.6	--	17	40	.0
SEP. 12...	265	8.4	21.0	10.2	--	720	69	1.0

01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)
JULY 16...	1230	.10	.00	.10	.10	.06	.38	.00	26
SEP. 12...	1300	1.0	.00	1.0	1.0	.07	1.2	.00	31

01562010 SHOUP RUN AT SAXTON, PA.

LOCATION.--Lat 40°13'31", long 78°14'23", Bedford County, at bridge 0.3 mile (0.5 km) upstream from mouth and 0.5 mile (0.8 km) north of Saxton.

DRAINAGE AREA.--21.8 mi^2 (56.5 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
JULY 25...	1310	10	.56	.10	.17	.27	.08	.04
SEP. 12...	1130	E2.0	.27	.11	.13	.24	.01	.01

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 25...	800	3.2	19.0	8.6	0	100	12
SEP. 12...	900	3.3	1.5	9.6	E4	140	3.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 08...	1120	E52	--	2.5	.08	.70	.78	.12	.03
JAN. 23...	1315	E38	--	.25	.12	.29	.41	.02	.01
MAR. 20...	1145	E36	--	.23	.12	.21	.33	.05	.00
MAY 15...	1100	E21	--	.18	.04	.09	.13	.02	.00
JULY 16...	1300	8.0	0	--	--	.03	.10	.01	--
SEP. 12...	1330	8.0	0	--	--	.00	.06	.01	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	215	4.4	9.0	11.0	1600	3600	--	11
JAN. 23...	240	3.8	4.0	13.6	80	E7	--	3.0
MAR. 20...	260	3.6	7.5	12.1	32	0	--	1.5
MAY 15...	300	3.7	10.5	10.0	E12	E10	--	2.0
JULY 16...	430	3.9	18.0	9.0	--	E1	10	.0
SEP. 12...	460	3.3	17.0	9.6	--	0	E6	.0

01562010 SHOUP RUN AT SAXTON, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)
JULY 16...	1300	.14	.00	.14	.14	.07	.24	.00	1.0
SEP. 12...	1330	.09	.00	.10	.10	.06	.16	.01	.0

01562200 SHY BEAVER CREEK NEAR ENTRIKEN, PA.

LOCATION.--Lat 40°18'02", long 78°12'49", Huntingdon County, at bridge 2.5 miles (4.0 km) south of Entriken, 1.2 miles (1.9 km) east of Russellville, and 1.4 mile (2.3 km) upstream from mouth.

DRAINAGE AREA.--10.5 mi^2 (21.6 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
JULY								
25...	1645	E1.1	120	.79	.04	.22	.26	.02
SEP.								
12...	1640	1.2	139	.59	.07	.18	.25	.03

DATE	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY								
25...	.02	300	8.1	24.0	8.2	270	740	4.0
SEP.								
12...	.01	340	7.7	18.0	9.4	490	130	4.0

01562200 SHY BEAVER CREEK NEAR ENTRIKEN, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 08...	1600	31	39	3.5	.06	.43	.49	.06	.02
JAN. 24...	1420	E12	55	.66	.10	.38	.48	.03	.02
MAR. 20...	1500	E12	56	.50	.09	.19	.28	.02	.02
MAY 15...	1400	E8.0	72	.41	.07	.17	.24	.02	.01
JULY 16...	1630	3.0	137	--	--	.18	.23	.02	--
SEP. 12...	1700	1.6	142	--	--	.04	.09	.02	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	143	7.3	9.0	10.2	8900	2600	--	9.5
JAN. 24...	138	7.3	2.5	13.0	1200	410	--	4.5
MAR. 20...	165	7.8	9.0	12.2	E20	E10	--	2.0
MAY 15...	180	7.4	13.0	11.2	34	260	--	3.5
JULY 16...	280	8.1	22.0	8.7	--	193	500	.0
SEP. 12...	305	8.2	18.0	9.4	--	150	568	.0

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
JULY 16...	1630	.47	.00	.47	.47	.05	.70	.01	33
SEP. 12...	1700	.47	.00	.47	.47	.05	.56	.01	33

01562250 TATMAN RUN NEAR ENTRIKEN, PA.

LOCATION.--Lat 40°18'03", long 78°09'47", Huntingdon County, at bridge on State Highway 994, 3.0 miles (4.8 km) southeast of Entriken, 2.0 miles (3.2 km) northwest of Newburg, and 1.3 miles (2.1 km) upstream from mouth.

DRAINAGE AREA.--7.48 mi^2 (19.4 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY								
25...	1500	.88	39	.47	.07	.12	.19	.02
SEP.								
12...	1220	E.30	63	.93	.08	.40	.48	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY								
25...	.01	120	7.6	24.5	7.8	180	260	3.5
SEP.								
12...	.01	190	7.5	18.0	9.0	97	460	4.0

01562250 TATMAN RUN NEAR ENTRIKEN, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
NOV. 08...	1330	E8.4	33	1.6	.23	.77	1.0	.08	.02
JAN. 23...	1515	E4.8	14	.47	.27	.76	1.0	.02	.02
MAR. 20...	1345	E11	17	.63	.17	.19	.36	.08	.04
MAY 15...	1300	E9.6	21	.23	.05	.15	.20	.04	.01
JULY 16...	1445	1.2	76	--	--	.13	.19	.01	--
SEP. 12...	1530	.45	85	--	--	.00	.04	.01	--

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	110	7.1	8.5	11.0	4100	560	--	10
JAN. 23...	68	7.1	3.0	12.6	500	190	--	3.0
MAR. 20...	80	7.4	7.5	11.7	320	160	--	2.5
MAY 15...	82	7.1	10.0	10.3	52	290	--	3.0
JULY 16...	155	7.4	22.0	7.0	--	160	132	.0
SEP. 12...	200	7.1	18.5	8.6	--	57	32	.0

DATE	TIME	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL IN- ORGANIC CARBON (C) (MG/L)
JULY 16...	1445	.60	.00	.60	.60	.06	.79	.01	16
SEP. 12...	1530	.64	.00	.64	.64	.04	.68	.01	22

01562300 RAYSTOWN BRANCH JUNIATA RIVER NEAR ENTRIKEN, PA.

LOCATION.--Lat 40°18'42", long 78°10'53", Huntingdon County, at Entriken bridge on State Highway 994, 1.8 mile (2.9 km) southeast of Entriken.

DRAINAGE AREA.--812 mi^2 (2,100 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to May 1973.

REMARKS.--Sampling site published as 401842 078105301 after May 1973 (lake site).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
JULY 25...	1530	93	1.2	.05	.31	.36	.02	.00
SEP. 12...	1415	102	1.2	.05	.57	.62	.02	.00

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 25...	315	8.3	29.5	9.0	23	44	4.0
SEP. 12...	350	7.8	20.5	8.4	82	42	2.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
NOV. 08...	1400	87	.72	.09	1.0	1.1	.13	.04
JAN. 23...	1600	56	.99	.04	.94	.98	.08	.05
MAR. 20...	1400	35	1.3	.56	1.2	1.8	.03	.03
MAY 15...	1315	52	.84	.08	.55	.63	.02	.01

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 08...	250	7.0	9.5	10.6	1500	710	12
JAN. 23...	162	7.3	2.0	13.0	1600	680	5.5
MAR. 20...	150	7.2	5.0	13.9	E16	60	2.5
MAY 15...	180	7.8	13.0	11.6	19	53	3.5

01562350 COFFEE RUN AT ENTRIKEN, PA.

LOCATION.--Lat 40°19'49", long 78°11'29", Huntingdon County, at bridge on improved light duty road 250 ft (76 m) from State Highway 994, 0.5 mile (0.8 km) southeast of Entriken, and 1.7 miles (2.7 km) upstream from mouth.

DRAINAGE AREA.--4.73 mi^2 (20.0 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY 25...	1605	E2.6	137	1.3	.18	.24	.42	.04
SEP. 12...	1445	E1.5	15	1.3	.05	.77	.82	.04

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 25...	.03	330	8.2	25.5	9.0	320	430	3.5
SEP. 12...	.04	390	8.0	18.0	8.6	1900	3900	5.0

01562350 COFFEE RUN AT ENTRIKEN, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV. 09...	1550	E8.0	87	.79	.05	.64	.69	.06	.04
JAN. 24...	1445	27	41	.50	.41	1.5	1.9	.02	.02
MAR. 20...	1530	E6.0	73	.60	.18	.45	.63	.04	.02
MAY 15...	1430	E5.0	86	.57	.01	.05	.06	.02	.02
JULY 16...	1700	1.2	165	--	--	.23	.30	.05	--
SEP. 12...	1745	.66	171	--	--	.00	.05	.03	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 09...	210	6.9	8.5	11.0	7900	12000	--	8.0
JAN. 24...	120	7.2	2.5	13.4	260	150	--	3.0
MAR. 20...	190	8.1	9.5	11.0	140	930	--	2.5
MAY 15...	185	8.3	12.5	12.0	--	930	2200	3.0
JULY 16...	310	8.2	23.0	8.6	--	690	500	.0
SEP. 12...	360	8.2	19.0	9.4	--	140	1400	.0

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
MAY 15...	1430	--	--	--	--	--	--	--	--
JULY 16...	1700	1.1	.00	1.1	--	.07	1.4	.04	39
SEP. 12...	1745	.59	.00	.59	.59	.05	.64	.02	40

01562400 RAYSTOWN BRANCH JUNIATA RIVER NEAR MARKLESBURG, PA.

LOCATION.--Lat 40°21'17", long 78°08'25", Huntingdon County, at Trexler bridge, 2.6 miles (4.2 km) southeast of Marklesburg and 400 ft (122 m) upstream from Great Trough Creek.

DRAINAGE AREA.--824 mi² (2,130 km²).

PERIOD OF RECORD.--Chemical analyses: July 1972 to May 1973.

REMARKS.--Sampling site published as 402117 078082501 after May 1973 (lake site).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY								
26...	1030	E10	89	.99	.04	.29	.33	.02
26...	1215	--	95	1.2	.04	.29	.33	.01
SEP.								
13...	0915	--	106	1.2	.05	.65	.70	.02
13...	1130	--	99	1.1	.09	.59	.68	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY								
26...	.01	300	8.1	24.5	8.2	43	50	4.0
26...	.01	320	8.1	26.0	9.0	20	50	3.0
SEP.								
13...	.00	340	7.7	20.0	8.2	61	170	2.5
13...	.00	340	8.0	22.0	8.4	40	230	3.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV.								
09...	1100	70	--	.08	1.4	1.5	.33	.11
09...	1250	72	.79	.12	1.4	1.5	.28	.10
JAN.								
24...	1200	47	.88	.14	.78	.92	.11	.05
MAR.								
21...	1300	32	1.1	.45	2.9	3.4	.02	.02
MAY								
16...	1230	50	.77	.12	.44	.56	.04	.02

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.							
09...	220	7.7	8.5	10.6	12000	5100	16
09...	203	8.0	8.5	10.8	9000	3800	13
JAN.							
24...	140	7.2	.5	12.8	1700	800	4.5
MAR.							
2 ...	155	7.7	5.5	13.2	E4	20	2.0
MAY							
16...	180	7.2	16.0	9.0	350	29	3.5

01562500 GREAT TROUGH CREEK NEAR MARKLESBURG, PA.

LOCATION.--Lat 40°21'00", long 78°07'50", Huntingdon County, at bridge, 3.1 miles (5.0 km) southeast of Marklesburg, 0.5 mile (0.8 km) upstream from mouth.

DRAINAGE AREA.--84.6 mi^2 (219 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY								
26...	1245	28	20	.34	.02	.14	.16	.01
SEP.								
13...	1100	5.1	29	.09	.04	.17	.23	.04

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ml)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY								
26...	.01	82	7.2	23.5	9.0	E10	44	4.0
SEP.								
13...	.03	120	6.9	19.5	9.4	420	1100	4.0

01562500 GREAT TROUGH CREEK NEAR MARKLESBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 09...	1320	E132	15	.77	.07	.44	.51	.08
JAN. 24...	1230	E100	6	.41	.23	1.6	1.8	.04
MAR. 21...	1330	E80	8	.20	.06	.13	.19	.01
MAY 16...	1200	E75	9	.14	.03	.18	.21	.03
JULY 16...	1500	12	19	--	--	.08	.14	.01
SEP. 12...	1600	8.0	30	--	--	.04	.08	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 09...	.04	100	6.9	7.5	11.4	6900	1300	--	10
JAN. 24...	.03	60	6.9	1.0	13.2	120	37	--	3.0
MAR. 21...	.01	65	7.0	5.0	13.2	E16	E20	--	2.5
MAY 16...	.01	70	6.4	10.5	10.8	16	52	--	9.5
JULY 16...	--	72	6.9	23.0	8.8	--	83	320	1.0
SEP. 12...	--	118	6.8	20.0	9.8	--	34	330	1.0

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
JULY 16...	1500	.10	.00	.10	.10	.06	.24	.01	5.0
SEP. 12...	1600	.03	.00	.03	.03	.04	.11	.01	8.0

SUSQUEHANNA RIVER BASIN

01562600 JAMES CREEK NEAR MARKLESBURG, PA.

LOCATION.--Lat 40°21'57", long 78°08'23", Huntingdon County, at bridge 2.1 miles (3.4 km) southeast of Marklesburg and 0.4 mile (0.6 km) upstream from mouth.

DRAINAGE AREA.--20.0 mi^2 (51.8 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to May 1973 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY 26...	1150	E10	142	1.8	.03	.22	.25	.04
SEP. 13...	0900	E3.0	146	1.3	.06	.42	.48	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 26...	.04	350	8.1	19.5	9.4	690	770	4.0
SEP. 13...	.00	360	7.8	18.0	8.0	1700	1800	4.0

CHEMICAL ANALYS WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV. 09...	1230	E43	63	.97	.07	.43	.50	.04
JAN. 24...	1145	E40	56	.54	.11	2.5	.11	.03
MAR. 21...	1230	E20	72	1.7	.46	3.2	3.7	.05
MAY 16...	1100	E8.0	97	1.1	.05	.41	.46	.03

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 09...	.02	170	7.6	8.5	11.0	2000	1100	10
JAN. 24...	.02	130	7.3	1.5	13.8	130	90	2.5
MAR. 21...	.01	190	7.9	6.0	12.6	E80	E13	1.5
MAY 16...	.01	245	6.8	9.0	11.8	60	85	2.5

01562700 RAYSTOWN BRANCH JUNIATA RIVER NEAR HESSTON, PA.

LOCATION.--Lat 40°22'46", long 78°03'42", Huntingdon County, at Fink bridge, 3.8 miles (6.1 km) southeast of Hesston.

DRAINAGE AREA.--938 mi^2 (2,430 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1972 to May 1973.

REMARKS.--Sampling site published as 402246 078034201 after May 1973 (lake site).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
NOV. 09...	1100	70	.97	.08	1.4	1.5	.33	.11
JAN. 24...	0945	44	.99	.05	.49	.54	.07	.05
MAR. 21...	1130	34	2.1	.12	.56	.68	.02	.01
MAY 15...	1600	45	.77	.03	.49	.52	.03	.01

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 09...	220	7.7	8.5	10.6	12000	5100	16
JAN. 24...	135	6.6	.5	13.4	E500	450	4.5
MAR. 21...	135	7.2	5.5	13.0	4	20	2.0
MAY 15...	165	7.3	15.5	11.0	E15	--	3.0

01563000 RAYSTOWN BRANCH JUNIATA RIVER NEAR HUNTINGDON, PA.

LOCATION.--Lat 40°25'35", long 78°01'47", Huntingdon County, at gaging station 5 ft (2 m) downstream from left abutment of highway bridge at Hawn Bridge, 6 miles (9.7 km) south of Huntingdon, and 9 miles (14.5 km) upstream from mouth.

DRAINAGE AREA.--957 mi^2 (2,480 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1950, February 1956 to October 1956, October 1962 to May 1973.

REMARKS.--Sampling site published as 402535 078014701 after May 1973 (lake site).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
JULY 26...	0930	83	1.0	.07	.37	.44	.04	.03
SEP. 13...	1515	97	.86	.21	.51	.72	.04	.02

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 26...	285	7.9	27.5	7.8	E10	E33	5.0
SEP. 13...	340	7.2	22.5	8.2	E5	E40	4.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
NOV. 09...	0900	83	.79	.09	.48	.57	.12	.04
JAN. 24...	0900	50	.90	.00	.44	.44	.05	.04
MAR. 21...	1015	33	2.3	.26	.59	.85	.03	.02
MAY 15...	1630	46	.68	.11	.86	.97	.02	.01

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 09...	225	7.2	9.0	11.6	9000	2100	10
JAN. 24...	128	6.6	.5	14.4	460	320	4.0
MAR. 21...	140	7.2	5.5	13.6	E8	20	3.0
MAY 15...	160	7.5	15.5	11.0	100	--	4.0

01563210 RAYSTOWN BRANCH JUNIATA RIVER AT ARDENHEIM, PA.

LOCATION.--Lat 40°27'17", long 77°59'00", Huntingdon County, at bridge, 0.6 mile (1.0 km) south of Ardenheim, 2.4 miles (3.9 km) southeast of Huntingdon, and 0.3 mile (0.5 km) upstream from mouth.

DRAINAGE AREA.--3,400 mi^2 (8,800 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Discharge records are obtained from 01563200 Raystown Branch Juniata River below Raystown Dam near Huntingdon.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JULY 26...	0800	--	81	1.1	.08	.44	.52	.11
SEP. 13...	1400	192	95	.77	.05	.34	.39	.03

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 26...	.10	270	7.6	26.0	7.2	23	67	4.0
SEP. 13...	.01	330	7.6	23.0	9.2	E15	96	4.0

01563210 RAYSTOWN BRANCH JUNIATA RIVER AT ARDENHEIM, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
NOV.									
09...	0800	1052	98	3.3	.07	.38	.45	.06	.02
JAN.									
25...	0645	1700	62	.90	.22	.70	.92	.06	.04
MAR.									
21...	0830	2090	35	1.1	.04	.42	.46	.07	.03
MAY									
16...	0900	31	37	.57	.09	.27	.36	.03	.01
JULY									
17...	0815	130	51	--	--	.14	.15	.00	--
SEP.									
13...	0830	128	48	--	--	.16	.28	.02	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.								
09...	265	7.7	9.0	11.2	560	100	--	9.0
JAN.								
25...	115	7.1	.0	13.8	520	340	--	5.5
MAR.								
21...	170	7.4	5.0	13.0	64	200	--	3.0
MAY								
16...	150	7.2	12.5	10.4	68	23	--	3.5
JULY								
17...	135	7.2	13.5	9.4	--	E15	73	.0
SEP.								
13...	157	7.2	18.5	8.0	--	40	210	5.0

DATE	TIME	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL INORGANIC CARBON (C) (MG/L)
JULY									
17...	0815	.74	.00	.74	.74	.04	.92	.00	10
SEP.									
13...	0830	.15	.00	.16	.16	.12	.44	.01	14

01567000 JUNIATA RIVER AT NEWPORT, PA.

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, at gaging station on State Highway 34 bridge at Newport, 1,000 ft (305 m) upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,350 mi^2 (8,680 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to June 1953, October 1956 to September 1972 (discontinued).
Water temperatures: October 1944 to September 1950, June 1958 to September 1973.
Sediment records: January 1951 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 392 micromhos Oct. 5; minimum daily, 129 micromhos Feb. 4.
Water temperatures: Maximum daily, 28.0°C Aug. 31; minimum daily, freezing point Jan. 16.

Period of record:
Specific conductance (1944-50, 1958-73): Maximum daily, 566 micromhos Aug. 22, 1964; minimum daily, 59 micromhos Aug. 19, 1950.
Water temperatures: Maximum daily, 31.0°C June 13, 1967; minimum daily, freezing point on many days during winter periods.

REMARKS.--Sediment data for this station on page 389. Unpublished records of water temperatures and specific conductance of sediment samples available in the district office at Harrisburg. Some flow regulation at low flow by powerplants and mills above station.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1972
(ONCE DAILY AM MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	377	189	199	---	251	221	145	157	260	272	278
2	365	385	198	201	164	248	197	153	171	268	267	276
3	376	380	204	206	134	243	183	162	186	262	278	289
4	382	368	205	212	129	245	172	168	196	268	290	295
5	392	372	213	216	137	241	154	174	205	250	303	305
6	378	373	211	212	140	231	140	175	209	244	271	318
7	345	376	199	---	151	204	136	180	197	263	251	320
8	347	360	173	---	158	193	136	186	190	271	264	323
9	341	327	160	---	166	183	134	189	176	278	294	326
10	346	311	142	---	175	170	137	185	190	291	296	319
11	360	288	139	---	178	169	135	185	199	268	289	315
12	370	273	144	---	189	168	137	166	210	271	291	332
13	367	263	147	---	193	174	141	161	221	275	262	331
14	342	263	152	---	196	176	149	164	230	283	272	313
15	333	236	170	250	201	177	158	171	229	285	283	289
16	328	238	174	249	---	184	166	175	227	292	290	218
17	345	197	178	253	---	190	171	178	225	288	292	254
18	363	202	180	254	215	174	175	191	225	294	279	260
19	376	203	182	256	224	155	191	194	236	299	305	212
20	361	201	187	252	236	165	202	203	237	293	214	229
21	360	211	193	248	229	168	207	199	264	300	259	228
22	363	214	194	252	236	180	209	204	245	297	133	207
23	359	221	168	248	230	179	213	210	241	292	235	228
24	355	209	154	220	235	177	217	215	253	293	228	240
25	368	218	162	208	237	180	217	203	232	301	266	---
26	366	212	163	196	238	181	216	190	243	306	271	---
27	362	196	168	199	248	190	196	177	253	297	287	---
28	357	186	172	199	253	192	164	180	259	285	270	---
29	343	181	179	184	---	195	145	163	246	265	269	---
30	345	189	188	163	---	201	139	164	243	292	269	---
31	351	---	195	160	---	199	---	161	---	304	255	---

01567000 JUNIATA RIVER AT NEWPORT, PA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.3	7.9	7.9	---	---	---	---	7.6	8.0	8.1	8.2
2	8.4	8.4	7.9	8.0	---	---	---	---	7.7	8.0	8.2	8.2
3	8.4	8.3	8.0	8.0	---	---	---	---	7.7	8.0	8.0	8.2
4	8.4	8.4	7.9	8.0	---	---	---	---	7.8	7.9	8.2	8.0
5	8.4	8.4	8.0	8.1	---	---	---	---	7.8	7.9	8.1	8.1
6	8.4	8.4	8.0	8.1	---	---	---	---	7.9	8.0	8.2	8.1
7	8.4	8.4	8.0	---	---	---	---	---	7.8	8.0	8.1	8.3
8	8.4	8.3	7.9	---	---	---	---	---	7.8	8.0	7.9	8.3
9	8.3	8.3	7.8	---	---	---	---	---	7.7	8.0	8.0	8.3
10	8.4	8.2	7.8	---	---	---	---	---	7.8	8.0	8.2	8.3
11	8.4	8.2	7.7	---	---	---	---	---	7.9	8.1	8.1	8.3
12	8.3	8.2	7.8	---	---	---	---	---	7.9	8.2	8.2	8.3
13	8.4	8.2	7.8	---	---	---	---	---	7.9	8.2	8.2	8.3
14	8.3	8.2	7.6	---	---	---	---	---	8.0	8.2	8.2	8.3
15	8.3	8.1	7.8	8.1	---	---	---	---	8.0	8.2	8.0	8.2
16	8.3	8.1	7.9	8.1	---	---	---	---	7.9	8.0	8.2	8.1
17	8.3	8.0	7.9	8.1	---	---	---	7.6	7.9	8.2	8.1	8.1
18	8.3	7.8	7.9	---	---	---	---	7.7	7.9	8.2	7.9	8.2
19	8.3	8.0	7.9	---	---	---	---	7.7	8.0	8.3	8.0	7.7
20	8.4	7.8	7.9	---	---	---	---	7.8	8.0	8.2	8.1	7.8
21	8.4	7.9	7.9	---	---	---	---	7.7	8.0	8.0	8.2	7.9
22	8.3	8.0	7.8	---	---	---	---	7.7	7.9	8.2	7.8	7.8
23	8.4	8.1	7.9	---	---	---	---	7.8	7.8	8.2	7.9	7.9
24	8.4	8.0	7.8	---	---	---	---	7.7	7.9	8.2	8.0	8.0
25	8.4	8.0	7.9	---	---	---	---	7.8	7.9	8.2	8.0	---
26	8.3	7.9	7.8	---	---	---	---	7.8	8.0	8.2	7.9	---
27	8.4	8.0	7.8	---	---	---	---	7.6	7.9	8.2	8.1	---
28	8.3	7.9	8.0	---	---	---	---	7.7	8.0	8.0	8.1	---
29	8.4	7.9	8.0	---	---	---	---	7.7	7.9	8.1	8.1	---
30	8.4	7.9	7.9	---	---	---	---	7.6	7.9	8.2	8.1	---
31	8.4	---	7.9	---	---	---	---	7.6	---	8.0	8.1	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY AM MEASUREMENS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	2.5	6.0	---	6.0	10.5	11.0	14.5	24.0	26.0	27.5
2	14.0	8.5	3.5	5.0	5.0	4.0	10.5	13.0	17.0	25.0	25.0	27.0
3	14.5	9.0	3.0	3.5	4.0	6.0	10.0	14.5	17.0	25.0	25.5	26.0
4	15.0	10.0	4.0	4.0	4.5	6.0	9.5	12.0	21.0	24.5	25.5	26.5
5	16.5	9.5	4.0	3.5	5.0	7.5	8.5	11.0	20.5	25.0	25.5	26.0
6	16.0	8.0	5.0	2.5	4.5	7.0	7.5	11.0	21.5	23.0	24.5	26.0
7	17.0	8.0	5.0	---	7.0	6.5	9.0	12.0	22.5	25.0	25.0	23.5
8	14.0	10.0	4.5	---	4.5	7.0	9.0	14.5	19.5	27.0	26.0	22.0
9	14.0	9.0	4.0	---	3.5	7.0	7.0	14.5	21.0	26.0	26.5	22.0
10	11.0	8.5	5.0	---	3.0	7.5	8.0	14.5	23.0	27.0	27.0	19.0
11	10.0	8.5	5.0	---	1.5	9.0	7.0	15.5	23.5	27.0	26.5	20.0
12	12.5	9.0	5.0	---	1.0	9.0	6.0	14.5	24.5	23.5	26.0	21.0
13	12.0	8.0	5.0	---	2.5	9.0	5.5	14.5	24.0	23.5	25.0	19.0
14	12.5	9.0	4.0	---	1.0	9.0	7.0	13.0	22.0	25.0	26.0	20.0
15	12.0	7.0	4.0	1.5	2.5	9.0	8.0	13.0	21.0	25.0	25.0	19.0
16	10.0	6.0	3.0	0.0	---	9.5	8.0	11.0	22.0	24.0	25.0	18.0
17	12.0	5.5	1.0	1.0	---	12.5	11.5	14.0	20.0	24.5	24.0	18.0
18	9.5	5.0	2.0	1.5	1.5	7.0	12.5	11.0	19.0	23.5	25.0	18.5
19	8.0	4.5	1.0	3.0	1.5	6.0	14.0	10.0	18.5	25.0	23.0	16.0
20	8.0	5.0	2.5	2.5	2.0	4.5	15.5	13.0	19.0	25.5	22.0	15.5
21	7.0	3.5	3.5	1.0	2.0	5.0	15.0	13.0	20.0	25.5	22.5	15.0
22	7.5	3.5	4.0	2.0	1.5	5.0	17.0	13.0	21.0	24.0	20.0	15.0
23	8.5	3.0	5.0	3.0	2.5	4.5	18.0	15.5	21.0	23.0	18.5	18.0
24	9.0	3.5	5.5	2.0	2.0	5.5	15.0	15.0	22.5	23.5	20.0	17.5
25	10.0	7.0	6.0	2.5	2.0	6.5	15.0	14.0	22.5	24.0	20.0	---
26	8.0	4.5	6.0	2.5	3.0	7.0	13.0	13.0	23.5	24.0	22.0	---
27	8.0	3.5	5.5	3.0	3.0	7.0	11.5	12.5	23.0	25.5	24.5	---
28	9.5	4.0	5.5	3.5	5.0	8.0	16.0	12.5	23.5	26.0	25.5	---
29	11.0	4.0	5.0	4.0	---	8.5	9.0	13.5	23.0	26.0	26.0	---
30	10.0	3.0	4.0	2.0	---	10.0	9.5	14.0	23.0	24.0	27.0	---
31	7.5	---	5.0	2.0	---	10.5	---	15.0	---	25.0	28.0	---

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'27", long 76°59'38", Cumberland County, at gaging station on right bank 720 ft (219 m) upstream from bridge on State Highway 944, 3.2 miles (5.15 km) upstream from mouth, and 3.3 miles (5.3 km) west of Enola.

DRAINAGE AREA.--0.77 mi^2 (1.99 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1973.
Sediment records: April 1969 to September 1973.

EXTREMES.--1972-73:
Turbidity: Maximum daily, 180 JTU Aug. 10; minimum daily, 1 JTU on several days during October, November, and September.

Period of record:
Turbidity (1971-73): Maximum daily, 200 JTU July 16, 1972; minimum daily, 1 JTU on many days.

REMARKS.--Sediment data for this station on page 393.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY 04...	1330	1.9	8.7	40	0	24	3.0	3.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
MAY 04...	1.0	66	0	54	15	3.7	.2	.59	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
MAY 04...	.60	94	72	18	154	7.5	12.0	3.0

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3	1	2	5	3	3	30	2	3	5	130	6
2	3	3	5	4	50	3	8	5	2	6	10	5
3	3	2	8	6	15	7	5	15	2	5	8	5
4	2	2	6	15	7	5	50	3	25	5	6	4
5	2	1	6	5	4	5	9	3	3	5	4	4
6	2	1	25	4	4	6	3	2	2	3	4	4
7	8	1	8	3	4	6	4	2	2	3	4	4
8	3	35	8	2	8	6	25	5	2	4	4	3
9	2	5	9	2	4	5	6	10	3	4	3	3
10	2	3	10	2	3	5	15	5	3	3	180	3
11	2	3	4	2	3	4	5	4	3	3	10	3
12	2	2	5	2	3	4	4	3	7	2	7	2
13	2	2	5	2	3	4	4	3	4	2	4	2
14	2	40	4	2	3	4	4	3	3	2	10	100
15	2	8	10	2	10	4	4	3	2	3	9	10
16	2	4	7	2	4	5	4	2	20	3	5	3
17	2	3	4	2	4	40	5	6	10	3	5	2
18	2	3	5	2	3	7	4	3	7	3	120	40
19	5	15	5	6	3	4	4	2	6	3	10	6
20	1	8	5	3	6	3	4	15	5	15	6	3
21	1	3	15	2	10	3	3	3	80	6	6	3
22	1	3	15	40	4	2	3	3	10	4	6	1
23	3	2	6	10	4	2	8	5	7	4	6	9
24	2	2	4	8	4	2	5	15	50	3	6	5
25	2	3	4	7	4	9	15	7	7	6	6	3
26	2	20	8	5	4	5	8	4	7	3	8	2
27	2	6	6	30	4	6	25	7	7	3	10	2
28	5	4	3	20	4	5	6	20	160	2	7	2
29	4	4	3	20	---	5	3	5	25	2	5	9
30	3	4	3	5	---	6	3	25	6	2	4	3
31	2	---	15	4	---	8	---	5	---	2	5	---

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'21", long 76°58'35", Cumberland County, at gaging station on right bank 100 ft (30 m) upstream from bridge on Valley Street, 1.7 mile (2.7 km) upstream from mouth, and 2.4 miles (3.9 km) west of Enola.

DRAINAGE AREA.--0.76 mi^2 (1.97 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Turbidity: Maximum daily, 550 JTU Aug. 18; minimum daily, 2 JTU on several days during October and November.

Period of record:
Turbidity (1972-73): Maximum daily, 550 JTU Aug. 18, 1973; minimum daily, 2 JTU on several days.

REMARKS.--Sediment data for this station on page 396. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY 04...	1000	1.4	7.0	70	0	23	3.4	2.8

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
MAY 04...	1.3	65	0	53	17	2.7	.3	.59	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
MAY 04...	.60	92	71	18	157	7.6	12.0	3.0

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5	2	20	10	55	15	50	8	6	10	120	15
2	5	4	20	10	130	10	25	10	10	7	40	9
3	5	10	10	10	35	15	10	30	6	9	10	8
4	5	5	8	35	30	15	95	15	95	7	10	7
5	5	4	10	10	270	10	35	9	10	5	8	7
6	5	4	120	8	200	9	20	8	8	4	10	7
7	8	4	55	6	410	10	25	15	10	5	50	7
8	5	35	90	10	80	25	65	5	10	6	15	10
9	4	8	35	10	25	10	30	35	10	7	65	10
10	4	5	45	9	30	9	55	7	9	7	370	10
11	3	5	70	8	20	10	15	15	8	7	20	10
12	3	4	25	7	40	9	15	8	30	8	10	10
13	3	4	45	6	90	9	15	5	7	8	15	10
14	3	55	85	5	140	8	9	4	7	8	15	440
15	3	80	45	5	55	7	8	4	6	8	65	25
16	3	15	10	5	15	20	7	5	60	7	40	10
17	3	10	10	5	9	170	9	10	15	7	10	10
18	3	8	10	5	9	20	8	4	10	6	550	290
19	10	45	30	8	10	60	9	4	10	6	25	15
20	6	30	10	5	10	55	8	30	120	55	30	10
21	4	10	25	8	20	60	6	6	250	40	20	9
22	5	7	45	85	10	30	6	5	90	7	10	9
23	6	7	15	20	15	35	20	5	15	7	9	65
24	7	6	10	15	8	9	10	30	120	7	10	7
25	7	8	10	15	9	15	40	15	40	20	10	7
26	2	80	15	30	15	25	10	6	15	20	10	7
27	2	15	10	70	10	20	35	20	15	10	10	6
28	7	10	9	40	40	10	10	35	210	10	10	4
29	2	50	10	55	---	15	8	15	65	10	10	10
30	2	40	10	35	---	15	7	70	10	10	10	6
31	2	---	55	55	---	10	---	10	---	10	10	---

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.

LOCATION.--Lat 40°17'44", long 76°57'55", Cumberland County, at gaging station on left bank 120 ft (37 m) downstream from bridge on Valley Street, 2.6 miles (4.2 km) upstream from mouth, and 1.6 miles (2.6 km) west of Enola.

DRAINAGE AREA.--0.70 mi^2 (1.81 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Turbidity: Maximum daily, 700 JTU Sept. 14; minimum daily, 1 JTU on several days in October.

Period of record:
Turbidity (1972-73): Maximum daily, 700 JTU Sept. 14, 1973; minimum daily, 1 JTU on several days in October 1972.

REMARKS.--Sediment data for this station on page 399. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY								
04...	1245	1.1	7.4	50	0	20	3.1	2.8

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
MAY									
04...	1.0	57	0	47	13	3.2	.2	.39	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
MAY								
04...	.40	81	63	16	136	7.5	11.5	3.0

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3	2	4	10	8	4	25	5	5	7	130	7
2	3	2	6	4	85	4	9	8	4	8	35	10
3	2	2	5	6	20	6	8	10	3	10	8	10
4	2	2	4	25	10	6	85	4	9	9	7	10
5	2	2	4	7	20	5	10	3	3	8	7	10
6	3	2	30	3	10	6	7	3	2	5	20	10
7	7	2	20	3	10	6	10	3	2	5	25	9
8	3	25	25	6	15	15	55	8	2	5	35	8
9	2	3	20	3	7	6	6	15	2	5	140	7
10	2	3	25	3	7	5	20	4	2	6	330	7
11	2	2	50	3	6	5	6	4	2	6	65	9
12	2	2	9	3	5	4	5	5	15	5	20	10
13	2	2	10	3	9	6	5	2	40	4	10	10
14	2	30	25	3	15	3	5	2	40	5	130	700
15	2	8	35	3	20	3	4	2	25	6	220	40
16	2	6	10	3	5	5	4	3	60	5	15	15
17	2	4	5	3	5	80	7	4	25	5	10	10
18	2	3	3	3	5	10	7	2	60	5	420	280
19	2	30	65	4	5	6	5	2	25	5	140	15
20	3	20	15	3	4	6	5	15	10	55	30	15
21	1	4	30	3	10	6	5	4	65	60	20	15
22	1	3	55	50	7	5	5	2	35	5	15	15
23	2	2	10	15	6	4	9	6	10	5	10	170
24	1	2	5	8	5	4	5	20	80	5	10	15
25	1	4	5	4	5	8	25	9	15	7	10	10
26	1	30	7	4	5	9	8	6	7	10	10	9
27	1	6	5	50	7	4	20	10	10	5	10	7
28	5	4	4	25	6	5	5	30	110	5	10	6
29	2	4	3	30	---	6	5	6	65	5	10	30
30	2	4	3	10	---	6	4	15	10	5	10	30
31	2	---	55	7	---	6	---	7	---	5	10	---

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.

LOCATION.--Lat 40°17'47", long 76°57'51", Cumberland County, at gaging station on right bank 20 ft (6 m) upstream from bridge on Valley Street, 2.6 miles (4.2 km) upstream from mouth, and 1.6 miles (2.6 km) west of Enola.

DRAINAGE AREA.--0.65 mi^2 (1.68 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Turbidity: Maximum daily, 1,800 JTU Sept. 14; minimum daily, 5 JTU Nov. 30 to Dec. 1.

Period of record:
Turbidity (1972-73): Maximum, 1,800 JTU Sept. 14, 1973; minimum daily, 5 JTU Nov. 30 to Dec. 1, 1972.

REMARKS.--Sediment data for this station on page 402. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY								
04...	1225	1.2	8.0	310	250	18	3.0	2.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
MAY									
04...	1.3	52	0	43	11	2.9	.3	.39	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
MAY								
04...	.40	75	57	15	124	7.2	11.0	5.0

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	20	5	15	15	45	80	10	20	35	600	20
2	30	80	25	15	300	70	20	10	20	260	250	10
3	30	60	20	45	60	25	15	40	30	170	70	10
4	50	15	30	120	35	20	200	7	55	390	55	10
5	25	20	15	230	75	45	20	10	30	1000	45	10
6	25	15	130	140	30	15	20	25	30	400	40	10
7	45	20	15	20	25	15	15	30	40	240	55	10
8	30	140	25	40	50	60	100	20	40	170	85	10
9	30	15	20	40	20	30	15	75	40	95	270	45
10	30	10	25	30	15	30	55	20	65	400	900	40
11	30	10	10	40	15	20	10	35	40	420	800	55
12	25	10	90	550	30	30	8	20	160	260	120	45
13	20	9	120	65	35	20	15	20	30	260	150	40
14	20	120	270	30	30	20	10	20	80	180	350	1800
15	15	15	190	230	80	15	10	20	50	150	390	850
16	20	15	40	50	15	20	10	35	190	85	250	150
17	15	15	20	30	15	150	7	35	95	260	90	25
18	20	15	650	30	10	30	7	20	85	230	600	550
19	25	80	30	70	95	30	7	25	25	330	400	500
20	20	15	70	15	55	20	20	75	20	300	480	500
21	20	15	120	15	75	20	10	20	160	700	130	150
22	20	15	150	250	45	25	10	20	85	300	150	90
23	20	10	30	35	30	15	20	35	90	160	600	350
24	15	7	20	30	30	15	10	75	120	80	200	350
25	15	6	10	20	20	30	70	25	100	110	60	150
26	15	60	25	35	20	20	20	10	25	110	50	80
27	20	10	15	120	25	10	55	35	380	70	40	55
28	25	10	10	65	70	20	9	80	1000	50	35	15
29	20	6	9	85	---	20	60	40	410	35	25	75
30	15	5	15	20	---	15	15	120	45	35	25	45
31	15	---	110	15	---	25	---	30	---	25	25	---

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.

LOCATION.--Lat 40°18'05", long 76°56'57", Cumberland County, at gaging station on right bank at upstream side of culvert on Valley Road, 1 mile (1.6 km) northwest of Enola, and 2.3 miles (3.7 km) upstream from mouth.

DRAINAGE AREA.--0.38 mi^2 (0.98 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1973.
Sediment records: April 1969 to September 1973.

EXTREMES.--1972-73:
Turbidity: Maximum daily, 1,100 JTU Sept. 14; minimum daily, 1 JTU Oct. 21-22.

Period of record:
Turbidity: Maximum daily, 1,100 JTU Sept. 14, 1973; minimum daily, 1 JTU Oct. 21-22, 1972.

REMARKS.--Sediment data for this station on page 405.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY								
04...	1045	.70	7.4	110	50	21	3.1	3.5

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
MAY									
04...	1.1	63	0	52	12	3.5	.2	.39	.0

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
MAY								
04...	.40	85	65	14	141	7.5	10.5	3.0

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CALCULATED MEAN DAILY VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5	3	4	10	95	10	75	50	30	25	700	10
2	5	15	10	8	360	15	35	45	15	30	55	10
3	5	6	8	10	40	15	10	75	10	50	40	10
4	5	5	7	25	20	10	170	10	40	35	30	10
5	5	4	7	7	380	8	50	10	45	30	30	10
6	6	3	40	6	35	8	10	10	35	30	25	10
7	10	3	10	6	190	10	25	20	65	25	60	10
8	6	40	10	6	90	30	85	20	160	25	500	10
9	5	10	10	10	25	35	50	180	25	25	80	10
10	4	7	15	30	25	20	50	30	20	20	500	10
11	4	7	8	30	25	10	10	600	60	20	80	7
12	4	7	6	30	30	35	65	25	300	20	40	7
13	4	10	6	15	35	30	65	10	130	30	25	7
14	4	40	6	10	20	30	15	25	600	30	700	1100
15	4	10	15	20	95	25	15	10	95	15	650	50
16	4	15	6	110	25	40	20	15	340	15	25	20
17	4	10	6	50	20	160	10	45	380	20	30	15
18	4	8	4	40	15	20	10	10	40	35	600	310
19	6	20	4	40	10	55	10	8	45	30	160	15
20	2	15	10	20	10	15	10	150	290	800	30	10
21	1	10	20	10	45	15	8	10	500	240	20	10
22	1	7	30	240	30	10	7	15	480	55	20	10
23	4	7	7	60	15	15	60	15	35	60	15	330
24	4	6	6	10	10	7	20	150	600	40	15	20
25	4	6	6	10	10	35	100	30	90	170	15	15
26	4	35	8	10	15	30	25	10	35	50	15	15
27	4	8	7	70	8	20	90	95	30	40	10	15
28	4	6	8	40	10	8	10	150	600	50	10	15
29	10	5	6	60	---	15	8	15	210	30	10	65
30	5	5	6	20	---	25	40	20	30	60	10	30
31	4	---	30	700	---	25	---	80	---	60	9	---

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.
(International Hydrological Decade Station)

LOCATION.--Lat 40°15'27", long 76°53'12", Dauphin County, at Walnut Street Bridge in Harrisburg, 3,700 ft (1,128 m) upstream from gaging station.

DRAINAGE AREA.--24,100 mi^2 (62,400 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1944 to January 1953, March to July 1956, October 1956 to September 1973.
Sediment records: October 1963 to September 1968, April 1970 to September 1973.

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network. Sediment data for this station on page 408.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
26...	0905	5650	402	7.8	9.5	10.4	130	44
NOV.								
28...	1030	65800	172	7.4	4.0	12.8	17000	0
DEC.								
07...	0950	84800	186	7.4	3.5	12.7	26000	--
JAN.								
30...	1050	60000	171	7.6	.0	13.3	23000	700
FEB.								
26...	1400	20300	223	7.3	3.5	14.1	1825	260
MAR.								
26...	1530	46200	152	7.4	8.0	12.3	1900	--
APR.								
10...	1500	89800	150	6.5	9.5	12.0	7600	210
MAY								
29...	1400	65600	163	7.1	17.0	9.8	28800	2800
JUNE								
26...	1000	24500	245	7.6	23.0	7.6	20000	390
AUG.								
09...	1030	9800	324	8.4	28.0	7.1	1800	150
30...	0945	9350	309	8.9	28.0	7.6	E600	E100
SEP.								
27...	1100	15500	242	7.7	19.0	8.8	3150	110

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM PLUS POTAS-SIUM (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
DEC.												
07...	0900	--	460	540	20	5.7	--	12	--	46	0	38
MAR.												
26...	1530	--	200	330	15	5.3	--	9.6	--	33	--	27
JUNE												
26...	1000	3.6	420	80	29	8.5	5.4	--	1.6	48	0	39
AUG.												
09...	1030	--	--	--	--	--	--	--	--	--	--	--
30...	0945	--	--	--	--	--	--	--	--	--	--	--
SEP.												
27...	1100	--	--	--	--	--	--	--	--	44	--	36

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
DEC.												
07...	42	9.0	--	1.3	--	.04	--	--	.03	.03	126	--
MAR.												
26...	40	6.5	--	.63	--	.07	--	--	.05	.02	103	--
JUNE												
26...	60	7.0	.2	--	.90	.11	--	--	.12	--	172	144
AUG.												
09...	--	--	--	--	--	--	--	--	--	--	187	--
30...	--	--	--	--	--	--	--	--	--	--	185	--
SEP.												
27...	64	--	.1	.93	--	.00	.49	.52	.12	.09	151	--

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SUS-PENDED SOLIDS (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IN-ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)
DEC.											
07...	94	--	73	35	7	45	--	4.6	4.5	--	--
MAR.											
26...	19	--	59	32	5	10	--	2.1	3.5	--	--
JUNE											
26...	--	--	107	68	5	35	--	6.0	2.0	9.5	--
AUG.											
09...	--	12	--	--	--	--	2.2	--	--	--	--
30...	--	7	--	--	--	--	2.4	--	--	--	--
SEP.											
27...	--	11	106	70	--	5	1.1	1.4	8.0	9.0	.01

DATE	TIME	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)
JUNE								
26...	1000	.89	.00	.11	.02	0	4.0	.1

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
SEP.							
27...	1100	170	120	<1	0	10	2

01576990 SUSQUEHANNA RIVER AT HOLTWOOD, PA.

LOCATION.--Lat 39°49'01", long 76°19'24", Lancaster County, at Route 372 bridge at Holtwood.

DRAINAGE AREA.--26,740 mi^2 (69,300 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to June 1973 (discontinued).

REMARKS.--Composite analyses taken as part of the USGS-EPA surveillance network. Records of discharge obtained from Safe Harbor Water Power Corporation and consist of flow through turbines and flow over dam.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 30...	0950	6800	445	7.6	11.0	10.5	35	3
NOV. 12...	1000	68400	160	7.0	9.5	11.0	4800	1300
DEC. 13...	0945	134000	143	7.0	4.9	14.4	7500	7800
JAN. 29...	1415	68000	240	7.8	3.0	13.0	--	2600
FEB. 27...	1430	37900	295	7.1	3.5	13.6	437	E25
MAR. 27...	1500	58000	170	7.0	8.5	11.8	3900	210
APR. 26...	1430	47500	220	7.1	16.5	10.2	1250	150
MAY 24...	1530	78000	190	6.8	15.5	11.2	6200	120
JUNE 19...	1430	39000	216	7.3	24.0	7.6	3800	83

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
DEC. 13...	0945	--	160	375	15	4.2	--	6.7	--	31	0	25
MAR. 27...	1500	--	210	260	16	5.0	--	11	--	39	--	32
JUNE 19...	1430	1.9	170	20	24	7.1	5.7	--	1.6	48	0	39

DATE	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
DEC. 13...	--	30	6.3	--	1.0	--	--	.05	--	--	.04	.04
MAR. 27...	--	37	7.0	--	.84	--	--	.09	--	--	.06	.04
JUNE 19...	0	51	7.0	.1	--	.89	.00	--	.20	.90	.11	--

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 13...	--	96	--	67	55	30	--	--	15	39	5.0	3.0
MAR. 27...	--	103	--	26	61	29	--	--	5	16	6.2	3.5
JUNE 19...	.06	144	126	--	89	50	4.0	.1	0	15	2.0	3.0

SUSQUEHANNA RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
01545800 - WEST BRANCH SUSQUEHANNA RIVER AT LOCK HAVEN, PA. (LAT 41 08 20 LONG 077 26 30)									
NOV., 1972									
01...	1200	1000	5.8	15	6.5	7.6	1.3	2	0
DEC.									
01...	1200	640	4.4	16	3.5	5.1	1.2	32	0

DATE	ALKALINITY AS CACO3 (MG/L)	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
01545800 - WEST BRANCH SUSQUEHANNA RIVER AT LOCK HAVEN, PA. (LAT 41 08 20 LONG 077 26 30)									
NOV., 1972									
01...	2	0	66	12	.1	.30	.00	.02	133
DEC.									
01...	26	0	29	7.4	.2	.80	.00	.06	920

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
01545800 - WEST BRANCH SUSQUEHANNA RIVER AT LOCK HAVEN, PA. (LAT 41 08 20 LONG 077 26 30)								
NOV., 1972								
01...	117	64	63	211	4.7	4.0	0	64
DEC.								
01...	86	54	28	146	7.7	3.0	0	1.0

LAKES IN THE SUSQUEHANNA RIVER BASIN

413324075430700 LACKAWANNA LAKE.--Lat 41°33'24", long 75°43'07", Lackawanna County, 1.0 mile (1.6 km) south of Wallsville at point 300 ft (91 m) upstream from dam on South Branch Tunkhannock Creek. Drainage area, 44.9 mi² (116 km²). Surface area, 202 acres (81.8 m²). Capacity at normal pool elevation of 992 ft (302 m), 2,400 acre-feet (2.96 hm³). Mean flow-through-time, 24 days at 50 ft³/s (1.4 m³/s). Period of record, chemical analyses, water year 1973 (partial-record station). Lake is used for recreation and flood control.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
JULY 25...	1300	1.0	40	10	16	1.7	5.5	1.6	41	0	34

DATE	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
JULY 25...	0	14	8.3	.2	.27	.00	.27	.20	.17	.37	.64

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)
JULY 25...	.02	.01	83	70	47	13	126	7.0	8	7.0	.0

DATE	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)
JULY 25...	2	5.0	4.8	3.5	.0	.0	.0	.0	.0	10	0

DATE	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JULY 25...	2	0	0	0	0	0	10	2	9	60

01614170 CONOCOCHEAGUE CREEK NEAR GREENCASTLE, PA.

LOCATION.--Lat 39°47'31", long 77°45'16", Franklin County, at Route 16 Highway bridge west of Greencastle.

DRAINAGE AREA.--249 mi^2 (645 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to June 1973 (discontinued).

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are obtained from unpublished rating table developed for station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
30...	1355	96	420	8.0	13.0	10.8	467	E93
NOV.								
15...	1410	180	420	8.0	10.0	13.6	330	230
DEC.								
13...	1430	1600	329	7.4	7.0	11.4	2900	900
JAN.								
29...	1015	2050	260	7.0	5.0	12.4	--	E3000
FEB.								
27...	1030	330	405	7.9	4.0	14.2	767	103
MAR.								
27...	1030	365	332	8.0	11.0	13.4	1200	150
APR.								
26...	1030	1750	225	6.7	11.0	10.4	38000	14300
MAY								
24...	1130	300	390	7.3	14.0	10.4	12000	1500
JUNE								
19...	1045	410	302	7.2	18.0	11.0	21000	1930

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
DEC.												
13...	1430	--	70	62	50	7.7	--	9.7	--	148	0	121
MAR.												
27...	1030	--	26	22	50	8.4	--	19	--	175	--	144
JUNE												
19...	1045	8.0	900	26	62	8.9	5.1	--	2.3	183	0	150

DATE	CARBONATE ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
DEC.												
13...	--	26	11	--	3.8	--	--	.18	--	--	.05	.05
MAR.												
27...	--	26	9.8	--	4.5	--	--	.28	--	--	.16	.13
JUNE												
19...	0	19	8.8	.2	--	3.1	.00	--	.04	3.2	.50	--

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.												
13...	--	200	--	33	156	35	--	--	5	18	3.8	3.0
MAR.												
27...	--	213	--	12	160	16	--	--	2	6	2.9	3.0
JUNE												
19...	.41	248	221	--	191	41	2.0	.0	3	25	2.0	2.5

03020500 OIL CREEK AT ROUSEVILLE, PA.

LOCATION.--Lat 41°28'54", long 79°41'44", Venango County, on right bank 100 ft (30 m) downstream from bridge on State Highway 8, about 300 ft (91 m) upstream from Cherrytree Run, and 1 mile (1.6 km) north of Rouseville.

DRAINAGE AREA.--300 mi^2 (777 km^2), including that of Cherrytree Run.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), November 1970 to September 1973.
Water temperatures: November 1970 to September 1972 (discontinued).
Sediment records: Water year 1970 (partial-record station), October 1970 to September 1973.

EXTREMES.

Period of record:
Specific conductance (1970-73): Maximum daily, 324 micromhos Aug. 19, 1971; minimum daily, 68 micromhos June 23, 1972.

REMARKS.--Sediment data for this station on page 412.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE DAILY AM MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	---	---	---	155	200	131	135	94	206	216	250
2	188	---	---	---	133	194	128	141	133	208	212	246
3	210	---	---	130	106	170	131	131	144	---	218	252
4	217	---	---	171	117	109	135	130	80	---	222	258
5	228	147	---	163	119	107	102	128	114	209	227	261
6	232	145	---	166	120	110	106	129	118	212	232	249
7	127	153	---	165	130	117	110	131	118	221	236	176
8	142	147	---	175	132	120	117	142	127	224	241	187
9	161	---	---	162	136	127	120	124	136	227	245	212
10	---	---	---	131	153	126	127	106	145	226	230	220
11	181	---	---	141	160	144	130	112	150	229	239	243
12	194	---	---	161	164	138	132	114	147	225	241	255
13	204	151	---	120	173	135	135	111	145	234	255	276
14	207	---	---	130	170	135	141	120	137	---	252	278
15	214	---	---	136	162	85	143	127	166	216	241	---
16	---	---	---	134	173	98	149	129	---	206	---	270
17	225	---	---	138	189	111	150	---	169	244	233	272
18	230	---	---	135	187	95	156	---	157	238	---	280
19	231	---	---	137	195	106	132	138	159	241	---	266
20	216	---	---	132	181	116	135	130	167	220	244	274
21	229	---	---	140	182	122	139	111	174	212	137	276
22	227	---	---	155	184	120	143	122	147	215	152	---
23	225	---	---	122	188	130	---	131	160	218	---	271
24	192	---	---	137	190	122	148	124	---	246	218	220
25	200	---	---	136	192	113	153	129	164	247	227	224
26	196	---	---	136	188	135	155	139	174	224	---	225
27	---	---	---	138	193	116	112	141	176	---	214	---
28	---	---	---	137	195	117	110	122	194	214	227	---
29	210	---	---	136	---	124	116	---	191	---	---	219
30	---	---	---	140	---	129	130	---	194	223	---	218
31	---	---	---	142	---	140	---	127	---	220	237	---

03029500 CLARION RIVER AT COOKSBURG, PA.

LOCATION.--Lat 41°19'50", long 79°12'33", Jefferson County, at gaging station on left bank at downstream side of bridge on State Highway 36 at Cooksburg, 300 ft (91 m) downstream from Toms Run, and 2.7 miles (4.3 km) upstream from Cathers Run.

DRAINAGE AREA.--807 mi^2 (2,090 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1962 to September 1973.
Water temperatures: January 1971 to September 1972 (discontinued).
Sediment records: January 1971 to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 265 micromhos July 15; minimum daily, 74 micromhos Mar. 18.

Period of record:
Specific conductance (1971-73): Maximum daily, 932 micromhos Sept. 29, 1971; minimum daily, 73 micromhos Apr. 17, 1972.

REMARKS.--Sediment data for this station on page 415. Unpublished records of specific conductance and water temperature of sediment samples available at district office in Harrisburg.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)
SEP.									
19...	1130	407	200	0	50	24	20	14	51

DATE	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
SEP.								
19...	31	.0	.0	245	6.1	12.5	9.6	31

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE DAILY MEASUREMENT AT 0730)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	198	137	---	128	193	122	116	122	141	204	204
2	243	177	141	---	133	204	122	116	122	138	204	202
3	239	124	141	108	132	203	122	119	129	147	204	201
4	228	128	142	101	123	204	125	118	95	159	203	216
5	229	125	127	105	98	129	106	119	94	162	225	214
6	228	125	79	98	92	138	106	118	102	166	223	202
7	242	125	78	102	99	128	98	225	109	166	213	194
8	242	130	94	112	98	108	97	225	116	158	211	213
9	242	126	92	110	117	104	100	117	117	171	213	223
10	200	126	127	112	115	103	101	128	119	177	231	209
11	200	132	131	147	130	103	109	106	118	179	227	211
12	200	132	---	135	119	113	109	104	124	222	217	213
13	215	126	---	140	165	117	110	128	123	223	216	210
14	215	102	---	164	147	116	123	105	131	226	224	226
15	214	98	---	156	149	100	109	---	129	265	189	228
16	244	85	---	164	164	91	122	111	119	206	174	241
17	242	100	---	136	151	75	122	110	117	195	177	244
18	243	98	---	140	146	74	125	115	124	190	176	241
19	249	120	---	144	149	84	122	114	124	202	181	242
20	250	120	---	172	176	85	137	115	130	216	157	228
21	252	127	---	160	186	95	138	119	129	213	153	226
22	256	127	---	172	182	98	138	114	120	207	143	243
23	256	124	---	162	180	104	140	111	120	204	144	241
24	242	126	---	139	175	111	141	113	150	210	159	225
25	239	127	---	134	182	112	143	114	124	204	155	229
26	237	145	---	169	198	106	143	120	123	221	170	245
27	203	145	---	146	202	104	151	120	110	216	171	259
28	203	143	---	144	193	107	150	119	129	209	178	247
29	205	131	---	154	---	110	111	119	135	207	194	260
30	205	133	---	153	---	114	112	121	134	190	194	259
31	202	---	---	135	---	77	---	122	---	189	195	---

03030106 TOBY CREEK NEAR CLARION, PA.

LOCATION.--Lat 41°14'05", long 79°23'06", Clarion County, at bridge 0.1 mile (0.2 km) south of Rapp Run and 1.4 mile (2.2 km) north of Clarion.

DRAINAGE AREA.--35.0 mi^2 (90.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT. 27...	1200	--	--	55000	25000	11000	--	--	--	--	0
JULY 03...	1300	19	24400	42100	6000	25300	77	105	10	3.6	0
AUG. 01...	1000	--	21800	42200	--	25600	94	73	11	3.2	0
SEP. 17...	0950	6.1	31700	102500	9600	43000	147	172	23	6.3	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
OCT. 27...	0	520	25	--	340	340	220	4.5	1130	3.6
JULY 03...	0	841	19	--	620	620	90	1.8	1500	3.1
AUG. 01...	0	740	22	1090	540	540	--	--	1300	2.9
SEP. 17...	0	1410	15	--	1100	1100	430	8.8	2600	3.0

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT. 27...	7.4	9.3	.0	--	--	--	--	--	--	--
JULY 03...	19.1	8.8	.0	5	10	520	27	1	520	1000
AUG. 01...	--	--	.0	40	20	440	20	5	520	1100
SEP. 17...	11.1	8.0	.0	4	16	720	34	1	1000	1600

03031000 CLARION RIVER AT ST. PETERSBURG, PA.

LOCATION.--Lat 41°08'57", long 79°39'37", Clarion County, on right bank at downstream side of highway bridge, 1.0 miles (1.6 km) south of St. Petersburg, 1.6 mile (2.6 km) downstream from Turkey Run, and 4.5 miles (7.2 km) upstream from mouth.

DRAINAGE AREA.--1,250 mi^2 (3,240 km^2).

PERIOD OF RECORD.--Chemical analyses, October 1971 to September 1972 (partial-record station), April to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DEPTH (FT)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)
APR.									
04...	1200	217	15000	100	24	20	--	--	100
AUG.									
22...	1200	--	1500	300	10	8	--	--	34
SEP.									
06...	1200	--	550	500	8	7	--	--	102
10...	1200	208	1200	1000	2	2	--	--	34
19...	1500	--	--	2300	4	3	104	26	120

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
APR.								
04...	80	--	--	225	--	--	--	--
AUG.								
22...	26	--	--	70	--	8.1	--	--
SEP.								
06...	95	3.0	.1	230	--	--	--	--
10...	32	5.0	.1	100	4.8	--	--	40
19...	120	7.3	.1	327	4.9	20.5	10.1	--

03031895 WELCH RUN AT SUMMERVILLE, PA.

LOCATION.--Lat 41°07'30", long 79°10'58", Jefferson County, at bridge 100 ft (30 m) upstream from mouth and 0.5 mile (0.8 km) north of Summerville.

DRAINAGE AREA.--4.24 mi^2 (11.0 km^2).

PERIOD OF RECORD.--Chemical analyses, August to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
AUG.											
01...	1100	--	2800	6700	--	15800	106	48	8.1	3.6	--
03...	1400	3.8	5450	7250	1750	20800	56	89	12	4.9	0
SEP.											
19...	1230	3.0	5000	18000	4000	24700	154	102	17	6.1	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
AUG.										
01...	--	--	--	900	460	--	--	--	1000	--
03...	0	602	12	--	530	530	152	3.1	1400	3.1
SEP.										
19...	0	850	14	--	800	800	100	2.1	1500	3.7

DATE	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG.										
01...	--	--	--	30	15	150	14	4	330	370
03...	15.9	8.6	.0	3	3	320	11	1	410	430
SEP.										
19...	10.5	8.3	.0	2	3	250	12	1	430	470

03041500 CONEMAUGH RIVER AT SEWARD, PA.

LOCATION.--Lat 40°25'09", long 79°01'35", Westmoreland County, at gaging station on left bank at upstream side of bridge on State Highway 56 at Seward, 2.0 miles (3.2 km) downstream from Findley Run, and 9 miles (14 km) northwest of Johnstown.

DRAINAGE AREA.--715 mi^2 (1,852 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971 (miscellaneous).
Water temperatures: October 1971 to September 1973.

EXTREMES.--1971-72:
Water temperatures: Maximum, 33.0°C July 15-16; minimum, 3.0°C Jan. 17.
1972-73:
Water temperatures: Maximum, 33.5°C Sept. 2-3; minimum, 1.5°C Feb. 12, 17.

Period of record:
Water temperatures (1971-73): Maximum, 33.5°C Sept. 2-3, 1973; minimum, 1.5°C Feb. 12, 17, 1973.

REMARKS.--Records furnished by the Pennsylvania Electric Company. Unpublished records of continuous water temperature for 1971 water year available at the district office in Harrisburg.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	19.0	19.5	17.0	16.5	16.5	---	---	---	8.0	6.5	7.0
2	19.5	19.0	19.0	18.0	16.5	17.0	---	---	---	7.0	7.0	7.0
3	19.5	19.0	19.0	18.0	16.5	17.0	---	---	---	7.0	6.0	6.0
4	20.0	19.5	19.5	16.5	14.0	15.0	---	---	---	6.5	6.0	6.0
5	20.5	19.5	20.0	14.5	11.5	13.0	---	---	---	7.0	6.0	6.5
6	20.5	19.0	20.0	13.0	11.5	12.0	---	---	---	7.0	6.0	6.5
7	19.5	18.0	18.5	13.0	11.5	12.0	---	---	---	6.0	5.5	6.0
8	18.0	15.5	16.5	11.5	10.0	10.5	---	---	---	5.5	5.0	5.0
9	16.5	15.5	16.0	10.5	9.5	10.0	---	---	---	5.5	5.0	5.0
10	16.5	16.0	16.5	10.0	10.0	10.0	---	---	---	6.5	7.0	6.0
11	16.0	15.0	15.5	10.5	10.0	10.0	---	---	---	8.0	6.5	7.0
12	16.0	15.0	15.5	10.5	9.0	10.5	---	---	---	7.0	6.5	7.0
13	16.0	14.5	15.5	11.5	10.5	11.0	9.0	8.5	9.0	7.0	6.0	6.5
14	16.5	15.5	16.0	11.5	10.5	11.0	9.0	8.0	8.0	8.0	6.5	7.0
15	17.0	15.5	16.5	---	---	---	8.5	7.0	8.0	7.0	5.5	6.0
16	17.0	16.0	16.5	---	---	---	10.0	8.5	9.5	6.5	4.5	5.5
17	16.5	16.0	16.5	---	---	---	9.5	8.5	9.5	5.5	3.0	4.0
18	17.0	16.0	16.5	---	---	---	8.5	6.0	6.5	5.0	3.5	4.0
19	17.0	15.5	16.5	---	---	---	6.0	5.0	5.5	5.5	4.5	5.0
20	16.5	15.5	16.0	---	---	---	---	---	---	6.0	5.0	5.5
21	16.5	15.5	16.5	---	---	---	---	---	---	6.0	5.0	6.0
22	17.0	16.5	16.5	---	---	---	---	---	---	6.0	5.5	6.0
23	17.0	16.5	17.0	---	---	---	---	---	---	7.0	6.0	6.5
24	17.0	17.0	17.0	---	---	---	---	---	---	7.0	7.0	7.0
25	17.0	16.5	16.5	---	---	---	---	---	---	8.5	7.0	8.5
26	16.5	16.0	16.0	---	---	---	---	---	---	8.0	4.5	6.0
27	16.0	15.5	16.0	---	---	---	9.5	9.5	9.5	5.0	4.0	4.5
28	16.5	15.5	16.0	---	---	---	11.0	9.5	10.5	4.5	4.5	4.5
29	17.0	15.5	16.5	---	---	---	10.5	9.0	9.5	4.5	4.0	4.5
30	16.5	15.5	16.0	---	---	---	9.5	8.0	8.5	4.5	4.5	4.5
31	16.5	15.5	16.0	---	---	---	9.5	8.0	9.0	5.0	4.0	4.5
MONTH	20.5	14.5	17.0	---	---	---	---	---	---	8.5	3.0	6.0

03041500 CONEMAUGH RIVER AT SEWARD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.0	4.5	5.5	4.0	5.0	9.5	8.5	9.5	15.0	13.5	14.0
2	4.5	3.5	4.0	5.0	4.0	4.5	9.5	9.0	9.5	15.5	15.0	15.0
3	4.5	3.5	4.0	4.5	3.5	4.5	5.5	8.0	8.5	15.5	15.0	15.5
4	6.5	4.0	5.0	5.0	4.0	4.5	8.5	8.0	8.5	15.5	14.5	15.0
5	5.5	4.0	4.5	5.0	4.0	4.5	8.0	6.0	6.5	15.0	13.0	14.0
6	5.0	4.5	5.0	6.0	4.0	5.0	9.0	6.5	7.0	14.0	13.0	13.5
7	5.0	5.0	5.0	5.5	4.0	4.5	10.0	9.0	9.5	15.5	14.0	14.5
8	5.0	4.0	4.5	6.0	4.0	5.0	8.5	6.5	7.0	15.5	15.0	15.5
9	6.5	4.0	5.0	5.5	4.5	5.0	7.0	6.0	6.5	15.5	14.5	15.5
10	9.0	4.0	6.0	6.5	5.5	6.0	8.5	6.5	7.0	15.5	15.0	15.5
11	6.0	4.5	5.0	6.0	5.0	5.5	10.5	9.0	9.5	16.0	15.0	15.5
12	6.0	4.5	5.5	5.5	4.5	5.0	11.5	9.5	10.5	16.0	15.0	15.5
13	5.5	5.5	5.5	6.0	6.0	6.0	11.5	10.0	11.0	15.0	13.5	14.0
14	5.5	5.0	5.5	6.0	5.5	6.0	11.5	10.5	11.0	15.0	13.0	14.0
15	5.5	5.0	5.5	5.5	5.0	5.5	11.5	10.5	11.0	15.5	13.5	14.5
16	5.0	4.5	5.0	6.5	5.0	6.0	11.5	11.0	11.5	17.0	14.5	16.5
17	5.0	4.5	5.0	6.5	6.0	6.0	12.0	10.5	11.0	17.0	16.5	16.5
18	5.0	4.0	4.0	6.5	6.0	6.0	12.0	10.0	11.0	18.5	16.0	17.0
19	6.5	3.5	4.5	7.0	5.5	6.5	13.0	11.0	12.0	19.0	16.0	18.0
20	5.0	3.5	4.0	6.5	5.5	6.0	13.5	13.0	13.0	16.0	15.5	16.0
21	5.0	4.5	5.0	7.0	5.5	6.0	13.5	11.0	12.0	15.5	15.0	15.5
22	5.5	5.0	5.0	8.0	6.0	6.5	12.0	11.0	11.5	16.5	15.0	16.0
23	5.5	3.5	4.5	9.0	7.0	8.5	11.0	10.0	10.5	20.0	15.5	18.0
24	5.0	4.0	4.5	8.5	6.5	8.0	11.5	11.0	11.0	20.5	18.5	19.5
25	5.5	4.5	4.5	6.5	5.0	5.5	11.5	10.5	11.0	20.5	19.0	20.0
26	5.5	5.0	5.0	6.0	5.0	5.5	11.5	10.0	11.0	20.5	18.5	19.5
27	5.0	4.0	4.5	6.0	5.0	6.0	12.0	10.5	11.5	20.0	18.0	19.0
28	5.5	4.5	5.0	8.5	6.0	7.0	13.0	11.0	11.5	20.0	18.0	19.0
29	5.5	4.0	5.0	8.5	7.0	8.0	13.5	11.5	12.0	20.5	19.0	19.5
30	---	---	---	9.0	8.0	8.0	13.5	12.0	13.0	21.0	20.0	20.5
31	---	---	---	9.5	8.0	8.5	---	---	---	21.0	20.0	20.0
MONTH	9.0	3.5	5.0	9.5	3.5	6.0	13.5	6.0	10.5	21.0	13.0	16.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	17.0	18.5	19.5	16.0	18.0	23.5	20.5	21.5	26.0	24.5	25.0
2	18.5	16.5	18.0	19.5	18.5	19.0	25.0	23.5	24.5	26.5	24.0	25.0
3	19.5	17.0	18.5	19.5	18.5	18.5	25.5	24.0	24.5	24.5	23.5	24.5
4	19.5	19.0	19.5	20.5	17.0	18.5	23.0	23.0	23.0	24.0	23.0	23.5
5	20.5	18.5	19.5	19.0	15.5	18.0	23.5	20.5	22.0	24.0	21.5	23.0
6	20.5	19.0	19.5	17.0	15.0	16.0	24.0	22.0	23.5	24.5	21.5	23.5
7	20.0	18.5	19.0	18.0	15.5	16.5	25.0	23.5	24.0	25.5	22.0	24.5
8	20.5	19.0	19.5	18.0	16.0	17.0	24.5	23.0	23.5	26.5	24.0	25.5
9	21.5	19.5	20.5	19.5	17.0	18.5	24.0	22.0	23.5	26.5	25.5	26.0
10	21.5	19.5	20.5	28.5	24.5	26.5	22.0	20.5	21.5	24.5	21.5	23.0
11	19.5	17.0	18.5	30.5	26.5	29.0	23.5	23.5	23.5	24.5	21.5	23.5
12	19.5	18.0	18.5	30.5	29.5	30.0	24.0	23.5	24.0	25.0	23.0	24.0
13	20.5	19.5	20.0	31.5	28.5	30.0	26.0	23.5	24.5	26.5	24.5	25.5
14	20.5	19.0	19.5	32.0	28.0	30.5	25.5	24.5	25.0	26.0	23.5	24.5
15	24.5	20.0	22.0	33.0	29.5	31.5	28.0	25.0	26.5	23.5	21.0	22.0
16	24.0	19.5	21.0	33.0	30.5	31.5	26.0	23.0	24.0	25.0	21.5	23.5
17	20.5	17.0	19.0	23.0	21.5	22.0	25.0	22.0	23.5	26.5	23.5	25.0
18	22.0	19.5	20.5	24.5	21.5	23.5	23.0	20.0	21.5	26.5	24.5	25.5
19	24.5	20.5	23.0	25.5	24.0	24.5	24.0	22.0	23.5	25.5	23.5	25.0
20	13.5	13.0	13.5	26.5	24.0	25.5	25.0	22.0	24.0	25.5	22.0	24.5
21	14.0	13.5	13.5	26.0	25.0	25.5	25.0	23.0	24.0	25.0	23.0	24.0
22	14.0	13.5	14.0	26.5	25.0	25.5	25.0	23.0	24.0	26.0	24.0	25.0
23	22.0	14.0	18.0	27.0	25.5	26.0	25.5	24.5	22.0	24.5	23.0	24.0
24	22.0	21.5	22.0	26.5	25.5	26.0	28.5	25.0	26.5	22.0	21.0	21.5
25	21.5	16.0	18.5	26.0	25.0	25.5	27.0	25.5	26.5	26.0	23.5	25.0
26	16.0	13.0	14.0	24.5	24.5	24.5	26.5	25.0	25.5	27.0	25.5	26.5
27	16.0	14.0	15.0	23.5	21.5	22.0	25.5	22.0	23.5	27.0	23.5	25.5
28	18.5	15.5	17.0	23.5	21.0	22.0	23.5	22.0	23.0	24.5	21.5	23.0
29	19.0	17.0	17.0	23.5	21.5	23.0	24.5	22.0	23.5	23.5	21.0	22.0
30	16.5	15.0	16.0	24.0	21.0	22.0	25.0	23.5	24.0	22.0	18.0	20.0
31	---	---	---	21.5	21.0	21.0	26.0	23.5	25.0	---	---	---
MONTH	24.5	13.0	18.5	33.0	15.0	23.5	28.5	20.0	24.0	27.0	18.0	24.0

03041500 CONEMAUGH RIVER AT SEWARD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	16.5	17.0	13.0	12.0	12.0	6.0	5.5	6.0	9.5	9.0	9.5
2	19.5	18.0	18.5	14.5	11.5	13.0	8.0	6.0	6.5	9.0	6.5	7.0
3	21.0	19.0	19.5	15.5	13.0	14.0	8.0	7.0	7.0	6.5	5.0	5.5
4	21.5	20.5	21.0	13.5	12.0	13.0	8.5	8.0	8.0	6.0	5.0	5.5
5	21.0	20.0	20.5	13.0	11.0	12.0	8.5	8.0	8.5	6.0	5.5	6.0
6	21.5	20.0	20.5	13.0	11.0	12.0	9.5	8.5	9.0	5.5	4.5	5.0
7	19.5	15.5	18.0	13.0	11.0	11.5	8.0	5.5	6.0	4.5	3.0	3.5
8	17.0	14.0	15.5	13.5	11.5	12.0	5.5	5.0	5.0	4.0	3.0	3.5
9	17.0	14.0	15.0	10.0	9.0	9.5	6.0	5.0	5.5	4.0	3.0	3.5
10	15.5	13.0	14.0	10.0	8.0	9.0	7.0	6.5	6.5	4.0	3.0	3.5
11	15.5	13.5	14.5	10.0	9.5	9.5	6.5	5.5	6.0	4.0	3.0	3.5
12	17.0	15.5	16.0	10.0	9.0	9.5	5.5	5.0	5.5	4.0	3.0	3.5
13	16.0	14.5	15.5	10.0	8.0	9.5	6.5	5.5	6.0	4.0	3.0	3.5
14	16.5	14.5	15.5	10.5	10.0	10.5	6.5	6.0	6.5	4.5	3.5	4.0
15	16.5	15.0	15.5	10.0	8.5	9.5	6.5	6.5	6.5	5.5	4.5	5.0
16	14.5	13.5	14.0	8.5	8.0	8.5	6.5	5.0	6.0	6.0	5.0	5.0
17	16.0	14.0	15.5	9.0	8.5	8.5	5.0	3.5	4.0	6.0	5.0	5.5
18	14.0	12.0	13.5	9.0	8.5	9.0	4.0	3.5	4.0	6.5	5.5	6.0
19	12.0	10.0	11.5	9.0	8.0	8.5	5.5	4.0	4.5	7.0	6.0	6.5
20	12.0	10.0	11.0	8.0	7.0	8.0	6.0	5.5	6.0	6.5	5.0	6.0
21	12.0	10.5	11.0	8.0	7.0	7.0	6.5	6.0	6.5	5.0	4.0	4.5
22	14.5	11.5	13.0	8.0	8.0	8.0	6.5	6.0	6.5	6.0	4.5	5.5
23	15.0	13.5	14.0	8.0	6.5	7.0	6.5	6.0	6.0	6.0	5.0	5.5
24	15.0	13.5	14.5	7.0	6.5	6.5	7.0	7.0	7.0	5.0	5.0	5.0
25	13.5	11.5	13.0	7.0	6.0	6.5	7.0	7.0	7.0	5.5	4.5	5.0
26	14.0	11.0	12.0	6.5	6.5	6.5	7.0	7.0	7.0	6.5	5.5	6.0
27	14.0	12.0	13.5	6.5	6.5	6.5	7.0	5.5	6.0	6.5	6.0	6.5
28	15.0	13.5	14.5	7.0	6.5	7.0	5.5	5.5	5.5	6.0	5.5	5.5
29	16.5	15.0	15.5	7.0	6.5	7.0	6.0	5.5	5.5	6.0	5.0	5.5
30	14.5	13.0	14.0	7.0	5.5	6.0	7.0	6.0	6.0	4.5	3.5	4.0
31	13.5	12.0	13.0	---	---	---	9.5	7.0	8.0	4.5	4.0	4.0
MONTH	21.5	10.0	15.0	15.5	5.5	9.5	9.5	3.5	6.5	9.5	3.0	5.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	4.5	4.5	8.5	6.0	7.0	11.5	10.5	11.0	14.5	11.5	13.0
2	5.5	5.5	5.5	8.5	6.0	8.0	11.5	9.5	10.5	14.5	14.0	14.5
3	5.0	4.5	4.5	8.0	6.5	7.0	9.5	9.0	9.0	14.5	13.5	14.0
4	5.5	4.5	5.0	6.5	5.5	6.0	9.0	8.5	9.0	13.5	11.0	11.5
5	6.0	5.0	5.5	6.5	6.0	6.5	8.0	7.0	7.0	12.0	10.0	10.5
6	6.0	6.0	6.0	7.0	6.5	7.0	10.0	6.5	8.0	15.0	11.0	13.0
7	6.0	5.5	5.5	8.0	7.0	7.0	10.5	9.0	10.0	16.5	13.5	15.0
8	6.0	5.5	6.0	10.0	8.0	8.5	10.5	9.0	9.5	16.5	15.5	16.0
9	5.5	3.5	4.0	10.0	8.0	9.0	9.5	8.0	9.0	15.5	14.0	14.5
10	4.0	3.0	3.5	10.5	9.0	9.5	9.5	8.0	8.5	15.5	14.0	15.0
11	4.0	3.0	3.5	10.5	10.0	10.0	7.0	6.0	6.5	15.0	14.5	15.0
12	4.5	1.5	3.0	10.5	10.0	10.0	8.0	6.5	7.0	15.0	14.0	14.5
13	5.0	2.0	3.5	10.5	9.5	9.5	8.0	6.5	7.0	15.0	13.5	14.0
14	5.0	3.5	4.0	11.0	9.5	10.0	10.0	6.5	8.5	14.0	13.0	13.5
15	5.5	3.5	4.5	12.0	11.0	11.5	11.0	8.5	9.5	14.0	13.5	13.5
16	5.0	3.0	4.0	12.0	12.0	12.0	13.0	10.0	11.0	15.5	11.5	13.5
17	5.0	1.5	3.0	12.0	10.0	11.5	13.0	13.0	13.0	15.5	13.5	14.5
18	5.0	2.0	3.5	10.0	5.5	7.0	13.5	13.0	13.0	13.0	11.5	12.0
19	5.5	3.0	4.0	6.0	5.0	5.5	15.5	13.5	14.0	14.5	11.5	13.0
20	6.0	4.0	5.0	8.0	6.0	6.5	17.0	14.5	15.5	14.5	14.0	14.5
21	6.0	5.5	5.5	8.0	6.5	7.0	18.5	16.0	17.0	15.5	14.0	14.5
22	5.5	4.0	4.5	8.0	6.5	7.0	18.0	16.5	17.0	17.0	14.5	15.5
23	5.5	4.5	5.0	8.5	6.0	7.0	18.0	16.0	17.0	17.0	16.0	16.0
24	6.0	5.0	5.5	9.5	7.0	8.5	15.5	14.0	14.5	15.0	14.0	15.5
25	6.5	5.0	5.5	9.5	8.0	8.5	15.0	13.0	14.0	15.0	14.0	14.5
26	7.0	6.5	6.5	10.0	8.5	9.0	13.0	11.5	11.5	14.0	14.0	14.0
27	6.5	6.0	6.0	11.5	9.5	10.0	11.5	10.5	11.5	14.5	14.0	14.0
28	7.0	5.5	6.0	11.5	10.0	10.5	10.5	9.5	9.5	16.5	14.0	15.0
29	---	---	---	11.0	10.5	10.5	12.0	9.0	10.0	17.0	15.5	16.0
30	---	---	---	11.0	10.5	11.0	12.0	10.0	11.0	16.5	15.5	16.0
31	---	---	---	11.0	10.5	10.5	---	---	---	18.0	14.5	16.0
MONTH	7.0	1.5	4.5	12.0	5.0	8.5	18.5	6.0	11.0	18.0	10.0	14.0

03041500 CONEMAUGH RIVER AT SEWARD, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	16.5	18.0	24.5	22.0	23.5	25.5	25.0	25.5	31.0	29.5	30.0
2	19.5	18.5	19.0	25.5	23.5	24.5	25.0	24.5	25.0	33.5	29.0	31.0
3	19.0	18.0	18.0	25.5	24.0	25.0	25.5	24.0	24.5	33.5	29.5	31.5
4	20.0	18.0	19.0	25.5	24.0	25.0	25.5	24.0	24.5	32.0	29.5	31.0
5	---	---	---	25.5	25.0	25.0	25.5	24.0	25.0	31.0	29.5	30.5
6	---	---	---	25.5	24.0	24.5	25.5	24.0	25.0	29.5	27.0	29.0
7	22.0	19.5	21.0	26.0	24.0	25.0	26.0	25.0	25.5	29.0	25.0	26.5
8	22.0	20.0	21.0	26.5	25.0	25.5	26.0	25.5	25.5	29.0	24.5	26.5
9	23.0	20.5	21.5	27.0	25.5	26.5	26.5	25.5	26.0	27.0	23.5	25.5
10	24.0	21.5	23.0	27.0	25.5	26.0	26.5	25.5	26.0	23.0	20.5	21.5
11	25.5	23.0	24.0	26.0	25.0	25.5	26.0	25.0	25.5	26.5	25.0	25.5
12	25.0	24.0	24.5	25.5	24.0	24.5	26.5	25.5	26.0	29.0	24.5	26.5
13	23.5	22.0	23.0	25.5	23.5	24.0	26.0	25.5	25.5	27.0	24.5	26.0
14	23.0	20.5	21.5	26.0	25.0	25.5	25.5	24.5	25.0	25.5	21.5	24.0
15	23.0	21.0	21.5	26.5	25.0	25.5	25.5	24.5	25.0	22.0	21.0	21.5
16	23.0	21.0	21.5	26.0	24.5	25.0	26.0	25.0	25.5	24.5	21.5	23.0
17	23.0	21.0	22.0	26.0	24.5	25.5	26.0	25.0	25.5	23.5	20.5	22.0
18	22.0	20.5	21.0	26.5	25.0	25.5	25.0	24.5	25.0	21.0	20.5	21.0
19	24.5	21.0	22.0	26.5	25.5	26.0	25.5	24.5	25.0	20.5	19.0	20.0
20	24.0	21.5	23.0	26.5	25.5	26.0	25.0	24.5	25.0	20.0	19.5	20.0
21	24.0	21.0	22.0	25.5	24.5	25.0	24.5	22.0	23.0	25.5	19.0	19.5
22	23.5	21.5	22.0	24.5	23.5	24.0	22.0	21.5	22.0	20.5	19.0	19.5
23	24.0	22.0	23.0	24.0	23.0	23.5	22.0	21.0	21.5	21.5	20.5	21.0
24	24.0	22.0	23.5	25.0	24.0	24.5	23.0	22.0	23.0	21.5	20.5	21.0
25	25.0	23.0	23.5	25.5	24.5	25.0	23.5	22.0	23.0	23.0	21.0	21.5
26	25.5	24.0	24.5	24.5	23.0	24.0	24.5	23.5	24.0	22.0	19.5	20.5
27	25.5	24.5	25.0	25.5	24.5	24.5	25.0	24.0	24.5	21.0	20.0	20.5
28	25.5	24.5	24.5	26.0	24.5	25.0	26.0	25.0	25.0	22.0	21.0	21.5
29	24.5	22.0	23.5	26.0	25.0	25.5	26.5	25.5	26.0	22.0	22.0	22.0
30	24.5	22.0	23.5	25.5	24.0	24.5	27.0	26.0	26.5	22.0	19.5	20.5
31	---	---	---	25.5	24.5	25.0	32.0	30.0	31.0	---	---	---
MONTH	25.5	16.5	22.0	27.0	22.0	25.0	32.0	21.0	25.0	33.5	19.0	24.0

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA.

LOCATION.--Lat 40°33'52", long 79°46'22", Allegheny County, at New Kensington highway bridge, 5.1 miles (8.2 km) downstream from lock and dam 4 at Natrona, 5.3 miles (8.5 km) downstream from gaging station at Natrona, and 19.0 miles (30.6 km) from mouth.

DRAINAGE AREA.--11,500 mi^2 (29,800 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network. Records of discharge are given for 03049500 Allegheny River at Natrona, Pa.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.								
25...	1230	10900	30	8.6	30	--	25	--
NOV.								
17...	0900	44200	16	5.1	9	0	7	--
DEC.								
19...	0900	52900	14	5.1	8	0	7	.75
JAN.								
10...	1400	14100	17	5.4	16	--	13	--
FEB.								
21...	1320	10600	25	7.0	4	--	3	--
MAR.								
14...	1400	26300	15	4.5	16	0	13	.61
APR.								
19...	0900	23600	18	5.0	18	--	15	--
MAY								
21...	1330	21200	--	--	--	--	--	.43
JUNE								
26...	1600	10100	24	7.7	19	0	16	--
JULY								
20...	1300	3010	--	--	23	0	19	--
AUG.								
15...	0930	5100	--	--	19	--	16	--
SEP.								
24...	1330	4870	--	--	32	--	26	.20

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	SUSPENDED SOLIDS (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)
OCT.									
25...	--	--	--	3	--	110	86	--	--
NOV.									
17...	--	--	--	78	--	61	54	1.7	.0
DEC.									
19...	.15	--	.02	18	--	56	49	2.5	1.0
JAN.									
10...	--	--	--	12	--	65	52	--	--
FEB.									
21...	--	--	--	2	--	91	88	--	--
MAR.									
14...	.15	--	.03	11	--	56	43	--	--
APR.									
19...	--	--	--	13	--	66	51	--	--
MAY									
21...	.25	.02	.01	13	--	--	--	--	--
JUNE									
26...	--	--	--	8	--	92	76	4.0	.1
JULY									
20...	--	--	--	1	--	--	--	--	--
AUG.									
15...	--	--	--	3	4	--	--	2.5	.1
SEP.									
24...	.64	.03	.01	4	6	140	110	--	--

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 25...	310	6.6	9.5	11.6	12	410	173	4.0
NOV. 17...	176	6.8	6.0	12.6	2.3	1570	320	6.5
DEC. 19...	193	6.5	1.0	13.8	4.0	110	20	3.5
JAN. 10...	192	6.7	.0	17.5	5.1	700	47	3.0
FEB. 21...	283	6.9	.5	14.0	.8	120	4	2.5
MAR. 14...	194	5.3	9.5	11.9	128	1000	193	4.0
APR. 19...	198	6.6	11.5	10.8	7.2	1630	250	2.5
MAY 21...	250	6.7	13.5	10.0	--	210	7	2.5
JUNE 26...	268	6.3	24.0	8.3	3.0	2800	210	--
JULY 20...	370	6.9	26.5	7.2	4.6	--	--	--
AUG. 15...	391	6.4	26.0	7.4	12	23000	9830	.0
SEP. 24...	391	6.7	20.5	9.0	10	15000	1600	7.0

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
DEC. 19...	0900	--	--	1340	--	460	--	17	--	62	13	.3
MAR. 14...	1400	--	--	380	--	360	--	11	--	46	11	.2
JUNE 26...	1600	3.6	140	--	--	640	10	--	1.9	76	11	.2
JULY 20...	1300	--	190	--	640	--	--	--	--	--	--	--
AUG. 15...	0930	--	200	--	540	--	--	--	--	--	--	--
SEP. 24...	1330	--	450	--	670	--	--	--	--	125	--	.3

DATE	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
DEC. 19...	--	--	--	--	--	--	--	110	--	2	16	--
MAR. 14...	--	--	--	--	--	--	--	114	--	4	8	--
JUNE 26...	.39	.01	.40	.25	--	--	.01	181	147	3	10	--
JULY 20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 15...	--	--	--	--	--	--	--	287	--	--	--	.8
SEP. 24...	--	--	--	--	.11	.75		247	--	--	3	.7

03049625 ALLEGHENY RIVER AT NEW KENSINGTON, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT. 25...	1230	220	3	<1.9	<.4	4.0	<.4	3.3	<.4	.05	.04
NOV. 17...	0900	130	78	<1.5	4.2	4.2	3.9	3.4	3.3	.06	.06
DEC. 19...	0900	140	18	1.9	.9	3.7	1.0	3.0	.9	.04	.01
JAN. 10...	1400	140	12	2.3	<.4	3.4	.4	2.8	<.4	.03	.01
FEB. 21...	1320	200	2	2.8	<.4	3.8	<.4	3.1	<.4	.06	<.01
MAR. 14...	1400	120	11	<1.3	.6	2.9	.6	2.3	.5	.04	.01
APR. 19...	0900	140	13	<1.5	.8	3.3	.5	2.7	.5	.06	.02
MAY 21...	1330	130	13	<1.4	.6	3.1	.6	2.5	.5	.05	.01
JUNE 26...	1600	190	8	5.6	.7	3.7	.7	3.0	.6	.03	.02
JULY 20...	1300	280	1	<3.9	<.4	5.2	.4	4.3	.4	.04	.08
AUG. 15...	0930	310	3	<5.4	<.4	5.3	<.4	4.5	<.4	.07	.03
SEP. 24...	1330	280	4	<4.7	<.4	4.2	.4	3.5	.4	.05	.06

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP. 24...	1330	0	.00	0	0	0	0	10	0	34	50

03063000 MONONGAHELA RIVER AT LOCK AND DAM 8, AT POINT MARION, PA.

LOCATION.--Lat 39°43'57", long 79°54'42", Greene County, at dam, lock and dam 8, at Point Marion, 1.5 miles (2.4 km) upstream from Cheat River, and 90.8 miles (146 km) from mouth.

DRAINAGE AREA.--2,720 mi^2 (7,045 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1955 to June 1963, January 1966 to September 1967, October 1968 to September 1973.
Water temperatures: October 1956 to June 1963, January 1966 to September 1967, October 1968 to September 1970.

REMARKS.--Operated as part of the USGS-EPA surveillance network. No discharge records available.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM PLUS POTAS-SIUM (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 24...	1030	--	--	--	--	30	7.8	--	2	--
NOV. 16...	1000	--	--	--	--	16	4.7	--	6	0
DEC. 18...	1100	--	450	--	278	14	4.8	13	7	0
JAN. 11...	1115	--	--	--	--	35	10	--	3	--
FEB. 20...	1130	--	--	--	--	27	7.3	--	4	--
MAR. 12...	1145	--	770	--	400	30	8.4	19	8	0
APR. 18...	1045	--	--	--	--	22	5.7	--	10	--
MAY 23...	1200	--	--	--	--	--	--	--	--	--
JUNE 25...	1030	480	--	--	950	53	14	--	1	0
JULY 24...	1045	320	--	890	--	--	--	--	3	0
AUG. 14...	1230	360	--	1200	--	--	--	--	2	--
SEP. 26...	1200	460	--	760	--	--	--	--	13	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 24...	2	--	--	--	--	--	--	--	--	--
NOV. 16...	5	--	--	--	--	--	--	--	--	--
DEC. 18...	6	--	63	6.0	.3	.50	.02	--	.03	103
JAN. 11...	2	--	--	--	--	--	--	--	--	--
FEB. 20...	3	--	--	--	--	--	--	--	--	--
MAR. 12...	7	--	124	8.8	.3	.27	.12	--	.01	207
APR. 18...	8	--	--	--	--	--	--	--	--	--
MAY 23...	--	--	--	--	--	.41	.23	.02	.01	--
JUNE 25...	1	0	170	14	.2	--	--	--	--	413
JULY 24...	2	0	--	--	--	--	--	--	--	--
AUG. 14...	2	--	--	--	--	--	--	--	--	611
SEP. 26...	11	--	230	--	.1	.43	.27	.03	.01	379

03063000 MONONGAHELA RIVER AT LOCK AND DAM 8, AT POINT MARION, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SUS-PENDED SOLIDS (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
24...	--	--	107	105	12	.2	--	--	--	5.5
NOV.										
16...	--	--	59	54	2.5	.1	--	--	--	4.5
DEC.										
18...	16	--	55	49	1.7	.0	2	13	--	4.0
JAN.										
11...	--	--	129	126	7.4	.2	--	--	--	2.0
FEB.										
20...	--	--	97	94	--	--	--	--	--	2.0
MAR.										
12...	3	--	110	103	--	--	0	3	--	2.5
APR.										
18...	--	--	78	70	--	--	--	--	--	1.5
MAY										
23...	--	--	--	--	--	--	--	--	--	2.0
JUNE										
25...	--	--	190	189	11	.2	0	8	--	--
JULY										
24...	--	--	--	--	--	--	--	--	--	--
AUG.										
14...	--	5	--	--	2.5	.1	--	2	.8	.0
SEP.										
26...	--	5	190	180	--	--	--	5	.4	7.0

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.							
24...	1030	324	5.1	13.5	9.8	13	8
NOV.							
16...	1000	173	6.7	9.0	11.0	183	22
DEC.							
18...	1100	174	6.4	4.5	11.8	480	193
JAN.							
11...	1115	342	6.0	1.0	17.8	4	1
FEB.							
20...	1130	291	6.9	2.0	13.8	107	75
MAR.							
12...	1145	331	6.4	11.5	10.6	78	4
APR.							
18...	1045	227	6.5	10.0	11.4	480	23
MAY							
23...	1200	350	5.5	15.5	9.4	17	3
JUNE							
25...	1030	539	5.1	26.0	7.8	733	10
JULY							
24...	1045	490	--	26.0	--	--	--
AUG.							
14...	1230	660	5.7	27.0	7.4	290	10
SEP.							
26...	1200	532	6.5	22.5	7.8	--	650

03063000 MONONGAHELA RIVER AT LOCK AND DAM 8, AT POINT MARION, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JUNE 25...	1030	6.6	30	2.1	.25	.00	.26	.00	323	32

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL ARSENIC (AS) (UG/L)
SEP. 26...	1200	200	.24	.51	.01	0	0

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP. 26...	0	0	0	0	14	100

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.

LOCATION.--Lat 40°24'19", long 79°52'53", Allegheny County, at Rankin Bridge, 1.7 miles (2.7 km) downstream from gaging station.

DRAINAGE AREA.--7,340 mi^2 (19,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1973.
Water temperatures: January to September 1973.
Sediment records: January to September 1973.

EXTREMES.--1972-73:
Specific conductance: Maximum daily, 937 micromhos Aug. 2; minimum daily, 207 micromhos Apr. 30.
Water temperatures: Maximum daily, 30.0°C on several days during Sept. 1-7; minimum daily, 4.0°C on several days during February.

Period of record:
Specific conductance (1972-73): Maximum daily, 937 micromhos Aug. 2, 1973; minimum daily, 207 micromhos Apr. 30, 1973.
Water temperatures: Maximum daily, 30.0°C on several days during September 1973; minimum daily, 4.0°C on several days during February 1973.

REMARKS.--Sediment data for this station on page 418. Operated as part of the USGS-EPA surveillance network.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL PHYTOPLANKTON (CELLS PER ML)
JAN.										
22...	0930	5950	375	6.9	6.0	--	9500	150	56	9
FEB.										
13...	1000	10600	274	6.8	4.0	13.4	950	24	5	4300
MAR.										
13...	0830	8760	320	7.1	11.0	10.7	3400	360	222	20
APR.										
17...	0930	24200	245	6.8	11.0	11.2	1370	53	52	50
22...	0930	5040	360	7.0	18.0	10.6	10400	320	168	100
JUNE										
22...	0730	9400	340	6.9	25.5	7.4	272000	3900	4100	69
JULY										
23...	0930	4790	596	6.5	28.5	6.0	17300	2900	80	1500
AUG.										
13...	1030	2930	533	6.5	28.5	6.6	97000	2700	3200	4300
SEP.										
25...	0930	5220	440	6.7	24.0	7.4	72000	11000	5000	2300

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
FEB.										
13...	1000	5.5	--	380	--	420	24	5.5	12	2.7
MAR.										
13...	0830	4.6	120	--	--	480	30	7.8	18	1.9
APR.										
17...	0930	5.1	350	--	--	320	16	6.4	11	1.5
MAY										
22...	0930	--	--	--	--	--	--	--	--	--
JUNE										
22...	0730	5.7	--	--	540	30	35	8.7	21	2.3
JULY										
23...	0930	5.5	10	--	20	--	52	14	46	4.3
AUG.										
13...	1030	5.2	--	140	--	1700	50	13	41	4.6
SEP.										
25...	0930	--	--	--	--	--	--	--	--	--

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON-ATE ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
FEB. 13...	12	0	10	--	101	9.9	--	.70	--	--
MAR. 13...	18	0	15	0	110	12	.2	.63	1.0	.01
APR. 17...	15	0	12	0	68	7.0	.2	.79	.70	.00
MAY 22...	--	--	--	--	--	--	--	1.3	--	--
JUNE 22...	20	0	16	0	124	10	.2	--	.99	.00
JULY 23...	21	0	17	0	210	18	.5	--	2.5	.00
AUG. 13...	9	0	7	0	200	18	.4	--	1.7	.00
SEP. 25...	--	--	--	--	--	--	--	1.2	--	--

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
FEB. 13...	--	--	--	--	.96	--	.08	.04	--
MAR. 13...	--	--	--	--	.61	--	.04	.02	230
APR. 17...	--	--	--	--	.38	--	.08	.03	157
MAY 22...	--	--	--	--	.24	--	.03	.00	--
JUNE 22...	1.0	--	.07	.65	.72	1.7	.20	--	242
JULY 23...	--	--	1.2	--	1.1	--	.04	--	408
AUG. 13...	--	--	.03	.83	.86	2.6	.10	--	387
SEP. 25...	--	.90	--	.34	--	--	.10	.08	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TUR-BID-ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)
FEB. 13...	167	83	73	--	--	18	12	3.0	--
MAR. 13...	198	107	92	--	--	6	1.0	--	--
APR. 17...	126	66	54	--	--	20	3.8	--	--
MAY 22...	--	--	--	--	--	--	--	--	--
JUNE 22...	221	123	107	.1	4.0	--	2.0	2.5	0
JULY 23...	373	188	170	--	--	9	11	--	0
AUG. 13...	346	180	170	--	--	5	4.6	1.0	0
SEP. 25...	--	--	--	--	--	8	--	7.0	--

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.												
13...	1000	<1	0	5	--	10	2	--	--	--	--	50
JUNE												
22...	0730	0	0	2	10	10	0	<.5	<.5	1	0	20

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
FEB.						
23...	0800	380	7.3	1.5	13.4	96
23...	1000	380	7.2	2.0	13.4	97
23...	1200	380	7.2	3.0	13.4	99
23...	1400	380	7.1	3.0	13.4	99
23...	1600	380	6.9	3.0	13.3	98
23...	1800	380	6.9	3.0	13.2	98
23...	2000	380	7.0	3.0	13.2	98
23...	2200	390	7.0	2.5	13.3	98
23...	2400	400	7.0	2.5	13.2	97
24...	0200	400	7.0	2.5	13.0	96
24...	0400	400	7.0	2.5	13.1	96
24...	0600	400	7.0	2.0	13.0	94
JUNE						
22...	0600	--	--	25.5	7.4	89
22...	0800	--	--	25.5	7.4	89
22...	1000	--	--	26.0	7.1	86
22...	1200	--	--	26.5	7.2	88
22...	1400	--	--	27.5	7.0	87
22...	1600	--	--	27.0	7.0	86
22...	1800	--	--	27.0	7.0	86
22...	2000	--	--	27.0	6.9	85
22...	2200	--	--	27.0	6.8	84
22...	2400	--	--	27.0	6.9	85
23...	0200	--	--	26.5	6.9	84
23...	0400	--	--	26.0	7.0	85

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY AM MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	401	373	366	215	390	451	648	538
2	---	---	---	---	317	357	359	216	397	451	937	525
3	---	---	---	---	224	352	338	217	399	486	631	542
4	---	---	---	---	229	360	308	256	439	478	603	523
5	---	---	---	---	233	348	308	261	454	481	569	540
6	---	---	---	---	248	343	306	233	438	497	599	548
7	---	---	---	---	249	326	321	234	460	499	647	558
8	---	---	---	---	314	301	258	239	451	501	617	560
9	---	---	---	---	271	305	357	262	463	516	610	536
10	---	---	---	---	270	319	251	261	446	511	574	529
11	---	---	---	---	245	293	216	260	437	515	551	511
12	---	---	---	---	298	290	215	263	448	531	578	516
13	---	---	---	---	331	291	222	265	432	530	588	487
14	---	---	---	---	314	355	295	260	420	531	549	453
15	---	---	---	---	312	368	236	288	422	543	551	451
16	---	---	---	---	285	360	335	303	344	532	560	640
17	---	---	---	498	325	400	251	309	401	540	554	616
18	---	---	---	529	323	350	242	274	400	547	559	615
19	---	---	---	526	281	374	243	335	389	552	540	585
20	---	---	---	527	280	371	247	346	384	582	546	594
21	---	---	---	521	333	382	244	346	388	560	561	600
22	---	---	---	522	349	355	254	373	364	600	582	547
23	---	---	---	477	347	348	260	387	383	599	574	566
24	---	---	---	504	426	360	261	394	386	597	554	494
25	---	---	---	471	428	408	384	394	383	600	559	539
26	---	---	---	463	351	412	284	418	416	603	562	492
27	---	---	---	432	395	411	287	414	461	632	560	545
28	---	---	---	427	405	387	260	419	461	617	484	507
29	---	---	---	420	---	397	209	442	460	617	487	524
30	---	---	---	413	---	398	207	438	453	642	479	540
31	---	---	---	362	---	369	---	439	---	634	475	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY AM MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	4.5	7.0	12.0	12.0	20.0	28.0	28.5	30.0
2	---	---	---	---	5.0	7.0	12.0	12.0	20.0	28.0	29.0	30.0
3	---	---	---	---	5.0	7.0	12.5	12.0	20.0	28.0	29.0	30.0
4	---	---	---	---	5.0	8.0	11.5	13.0	20.0	28.0	28.5	30.0
5	---	---	---	---	5.0	8.0	11.0	13.0	20.5	28.5	28.5	30.0
6	---	---	---	---	6.0	9.0	10.5	13.0	22.0	28.5	28.0	30.0
7	---	---	---	---	7.0	9.0	10.0	14.0	23.5	29.0	28.0	30.0
8	---	---	---	---	7.0	10.0	10.0	14.0	24.0	29.0	28.0	29.5
9	---	---	---	---	6.0	11.0	10.0	15.0	24.5	29.0	28.0	29.0
10	---	---	---	---	5.0	11.0	9.5	15.0	25.0	30.0	29.0	29.0
11	---	---	---	---	4.5	12.0	9.5	15.0	26.0	30.0	29.5	28.0
12	---	---	---	---	4.0	12.0	9.0	15.0	27.5	30.0	29.5	27.5
13	---	---	---	---	4.5	12.0	9.0	15.0	28.0	30.0	29.5	27.0
14	---	---	---	---	5.0	12.0	8.5	5.0	28.0	30.0	29.5	27.0
15	---	---	---	---	5.0	13.0	8.5	15.0	28.0	30.0	29.5	26.0
16	---	---	---	---	4.5	14.0	9.0	15.0	28.0	29.0	29.0	26.0
17	---	---	---	7.0	4.5	13.0	11.0	15.0	28.5	29.0	29.0	26.0
18	---	---	---	9.0	4.0	12.0	11.0	15.0	27.0	29.0	29.0	25.0
19	---	---	---	9.0	4.0	10.0	11.5	15.0	27.0	29.0	29.0	25.0
20	---	---	---	9.0	4.5	10.0	11.5	15.0	27.5	29.0	29.0	24.5
21	---	---	---	7.0	4.5	10.0	12.5	16.0	28.0	29.0	28.5	24.0
22	---	---	---	6.0	4.0	9.0	13.5	18.0	28.0	29.0	28.5	24.0
23	---	---	---	6.0	4.0	9.0	14.5	18.0	28.0	29.0	28.0	24.0
24	---	---	---	6.0	4.0	9.0	15.0	18.0	28.0	29.0	27.0	24.0
25	---	---	---	5.0	4.0	9.0	15.0	18.0	28.0	29.0	27.0	24.0
26	---	---	---	5.0	5.0	10.0	15.0	19.0	28.0	29.0	27.5	24.0
27	---	---	---	5.5	6.0	10.0	15.0	18.0	28.0	29.0	28.0	24.5
28	---	---	---	5.5	6.0	10.0	14.0	19.0	28.0	29.0	28.0	25.0
29	---	---	---	6.0	---	11.0	14.0	19.0	27.5	29.0	28.0	25.0
30	---	---	---	5.5	---	12.0	12.0	19.5	27.5	28.5	28.0	25.0
31	---	---	---	5.0	---	12.0	---	20.0	---	28.5	29.5	---

03086000 OHIO RIVER AT SEWICKLEY, PA.

LOCATION.--Lat 40°31'50", long 80°11'20", Allegheny County, 200 ft (61 m) downstream from gage, at highway bridge at Sewickley, 0.5 mile (0.8 km) upstream from Narrows Run, 1.5 miles (2.4 km) upstream from Dashfields Dam, and 11.8 miles (19.0 km) downstream from confluence of Allegheny and Monongahela Rivers.

DRAINAGE AREA.--19,500 mi^2 (50,500 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: February 1956 to October 1956, October 1961 to September 1973.

REMARKS.--Composite samples taken as part of the USGS-EPA surveillance network.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM PLUS POTASSIUM (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT. 26...	0945	18300	--	--	--	--	36	10	--	63	--	52
NOV. 16...	0700	74900	--	--	--	--	20	5.8	--	20	0	16
DEC. 18...	0800	91500	--	310	--	388	17	5.3	18	13	0	11
JAN. 11...	0845	21600	--	--	--	--	24	7.5	--	16	--	13
FEB. 20...	0930	24000	--	--	--	--	28	7.4	--	8	--	7
MAR. 12...	0900	43600	--	61	--	400	20	5.6	15	14	0	11
APR. 18...	0800	42000	--	--	--	--	22	6.0	--	18	--	15
MAY 23...	0930	27900	--	--	--	--	--	--	--	--	--	--
JULY 24...	0730	9580	320	--	650	--	--	--	--	22	0	18
AUG. 14...	0915	5980	290	--	600	--	--	--	--	22	--	18
SEP. 26...	0900	12100	1000	--	750	--	--	--	--	32	--	26

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)
OCT. 26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV. 16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC. 18...	64	16	.2	.72	.18	--	--	--	--	.04	122	--
JAN. 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB. 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR. 12...	70	13	.1	.77	.29	--	--	--	--	.05	141	--
APR. 18...	--	--	--	--	--	--	2.0	--	--	--	--	--
MAY 23...	--	--	--	.90	.05	--	--	--	.03	.00	--	--
JULY 24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 14...	--	--	--	--	--	.70	--	--	--	--	270	14
SEP. 26...	170	--	.2	.88	1.3	--	.46	1.8	.16	.13	334	17

03086000 OHIO RIVER AT SEWICKLEY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
26...	131	79	27	.6	451	6.0	--	--	--	101	5.0
NOV.											
16...	74	58	--	--	213	6.9	--	--	--	4.0	6.0
DEC.											
18...	64	53	--	--	204	6.7	2	18	--	3.3	4.0
JAN.											
11...	91	78	--	--	284	6.8	--	--	--	6.4	2.0
FEB.											
20...	100	94	--	--	320	7.1	--	--	--	1.0	2.5
MAR.											
12...	73	62	--	--	235	6.8	2	7	--	3.6	3.0
APR.											
18...	80	65	--	--	261	6.6	--	--	--	7.2	--
MAY											
23...	--	--	--	--	290	6.9	--	--	--	--	1.5
JULY											
24...	--	--	--	--	420	--	--	--	--	--	--
AUG.											
14...	--	--	2.5	.1	480	6.4	--	--	.8	14	.7
SEP.											
26...	204	180	--	--	485	6.6	--	10	1.0	13	6.0

DATE	TIME	DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
26...	0945	18300	451	6.0	12.0	10.4	5000	780
NOV.								
16...	0700	74900	213	6.8	9.0	12.4	7500	1050
DEC.								
18...	0800	91500	264	6.8	3.5	13.2	2900	733
JAN.								
11...	0845	21600	294	6.8	.0	18.2	900	81
FEB.								
06...	1015	--	--	7.5	3.0	12.7	--	--
20...	0930	24000	320	7.1	4.0	13.6	9700	630
MAR.								
12...	0900	43600	235	6.8	9.5	12.6	17000	1100
APR.								
18...	0800	42000	261	6.6	11.5	11.4	45700	1200
MAY								
23...	0930	27900	290	6.9	15.0	9.8	18700	1430
JUNE								
25...	0730	18600	325	7.0	24.5	8.0	90000	933
AUG.								
14...	0915	5980	480	6.4	26.5	5.4	37000	633
SEP.								
26...	0900	12100	485	6.6	E22.0	7.2	310000	15000

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP.											
26...	0900	200	.01	0	0	0	0	10	1	17	40

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03028750 - LAUREL RUN NR SAINT MARYS, PA. (LAT 41 25 07 LONG 078 36 18)									
OCT., 1972									
02...	1200	.10	700	0	500	34	28	--	--
03028800 - DAGUSCAHONDA CR AT DAGUSCAHONDA, PA. (LAT 41 25 09 LONG 078 38 32)									
OCT., 1972									
02...	1200	6.4	700	200	500	0	0	--	--
03028900 - ELK CREEK AT RIDGWAY, PA. (LAT 41 25 31 LONG 078 43 38)									
APR., 1973									
17...	1200	--	600	--	0	4	3	--	14
03029120 - BIG MILL CR NR RIDGWAY, PA. (LAT 41 24 58 LONG 078 46 31)									
OCT., 1972									
10...	1200	8.1	900	0	0	22	18	--	--
APR., 1973									
17...	1420	48	300	--	100	4	3	--	--
03029140 - BRANDYCAMP CR NR ELBON, PA. (LAT 41 17 10 LONG 078 41 22)									
OCT., 1972									
04...	1200	7.8	9000	6000	1000	0	0	282	8.6
APR., 1973									
17...	1200	--	2600	--	2100	0	0	202	5.8
03029144 - MEAD RUN AT BROCKPORT, PA. (LAT 41 15 38 LONG 078 43 33)									
OCT., 1972									
04...	1200	4.3	500	0	3000	10	8	--	--
03029150 - LITTLE TOBY CREEK AT BROCKWAY, PA. (LAT 41 15 09 LONG 078 47 48)									
OCT., 1972									
05...	1200	--	1200	350	1500	4	3	--	--
APR., 1973									
17...	1200	152	1100	--	500	1	1	--	--
SEP.									
23...	1300	36	1200	350	2800	4	3	--	--
03029170 - LITTLE TOBY CREEK AT PORTLAND MILLS, PA. (LAT 41 21 53 LONG 078 49 22)									
OCT., 1972									
06...	0900	97	400	100	1000	5	4	--	--
APR., 1973									
17...	1430	227	700	--	1300	1	1	--	--
SEP.									
21...	1035	51	800	100	3600	4	3	--	--
03029180 - BEAR CR NR RIDGWAY, PA. (LAT 41 23 52 LONG 078 49 23)									
OCT., 1972									
10...	1200	21	400	0	400	26	21	17	5.2
APR., 1973									
17...	1245	57	150	--	0	8	7	--	--
03029184 - WOLF RUN AT PARRISH, PA. (LAT 41 29 27 LONG 078 59 49)									
OCT., 1972									
10...	1200	2.8	600	0	80	26	21	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03028750 - LAUREL RUN NR SAINT MARYS, PA. (LAT 41 25 07 LONG 078 36 18)									
OCT., 1972 02...	51	23	.0	.0	150	6.8	14.6	9.0	8.6
03028800 - DAGUSCAHONDA CR AT DAGUSCAHONDA, PA. (LAT 41 25 09 LONG 078 38 32)									
OCT., 1972 02...	68	68	12	.2	200	4.9	12.2	12.0	.0
03028900 - ELK CREEK AT RIDGWAY, PA. (LAT 41 25 31 LONG 078 43 38)									
APR., 1973 17...	51	48	.0	.0	140	6.1	--	--	5.1
03029120 - BIG MILL CR NR RIDGWAY, PA. (LAT 41 24 58 LONG 078 46 31)									
OCT., 1972 10...	34	16	.0	.0	90	6.4	10.2	12.0	14
APR., 1973 17...	17	14	.0	.0	50	5.9	8.0	--	8.1
03029140 - BRANDYCAMP CR NR ELBON, PA. (LAT 41 17 10 LONG 078 41 22)									
OCT., 1972 04...	270	270	51	1.0	700	4.4	10.6	9.2	.0
APR., 1973 17...	190	190	39	.8	450	3.4	--	--	.0
03029144 - MEAD RUN AT BROCKPORT, PA. (LAT 41 15 38 LONG 078 43 33)									
OCT., 1972 04...	170	160	.0	.0	390	5.2	12.2	10.4	101
03029150 - LITTLE TOBY CREEK AT BROCKWAY, PA. (LAT 41 15 09 LONG 078 47 48)									
OCT., 1972 05...	190	190	.0	.0	450	4.9	13.0	10.8	--
APR., 1973 17...	170	170	7.3	.1	380	4.9	9.0	--	--
SEP. 23...	240	240	12	.2	580	5.0	14.5	--	--
03029170 - LITTLE TOBY CREEK AT PORTLAND MILLS, PA. (LAT 41 21 53 LONG 078 49 22)									
OCT., 1972 06...	220	220	.0	.0	420	5.5	12.4	11.0	25
APR., 1973 17...	170	170	7.3	.1	340	4.8	11.0	--	--
SEP. 21...	210	210	4.9	.1	400	4.7	11.5	--	--
03029180 - BEAR CR NR RIDGWAY, PA. (LAT 41 23 52 LONG 078 49 23)									
OCT., 1972 10...	46	25	.0	.0	90	6.6	12.8	8.0	10
APR., 1973 17...	19	12	.0	.0	50	6.6	10.0	--	3.2
03029184 - WOLF RUN AT PARRISH, PA. (LAT 41 29 27 LONG 078 59 49)									
OCT., 1972 10...	34	13	.0	.0	85	7.2	7.2	12.2	2.6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
03029185 - SPRING CREEK NEAR HALLTON, PA. (LAT 41 24 59 LONG 078 56 52)									
OCT., 1972									
06...	1200	27	500	0	0	36	30	11	5.2
APR., 1973									
17...	1200	144	200	--	50	10	8	--	--
SEP.									
18...	1015	13	400	0	0	44	36	--	--
03029188 - MAXWELL RUN AT MOUTH, PA. (LAT 41 23 05 LONG 078 56 08)									
OCT., 1972									
06...	1200	3.7	1200	0	500	26	21	11	4.2
SEP., 1973									
19...	1030	.09	500	0	0	6	5	--	--
03029190 - WYNCOOP RUN NR CLARINGTON, PA. (LAT 41 21 26 LONG 079 02 20)									
SEP., 1973									
18...	1200	1.2	350	0	0	48	39	8.0	14
03029195 - MILLSTONE CR NR CLARINGTON, PA. (LAT 41 21 19 LONG 079 04 18)									
OCT., 1972									
11...	1200	29	600	0	0	22	18	14	11
SEP., 1973									
18...	1330	5.6	500	0	80	66	54	--	--
03029205 - CLEAR CR AT MOUTH, PA. (LAT 41 19 48 LONG 079 06 11)									
OCT., 1972									
17...	1200	7.9	400	100	0	26	21	5.8	10
SEP., 1973									
18...	1000	1.4	200	0	0	32	26	--	--
03029250 - MAPLE CR NR CLARINGTON, PA. (LAT 41 20 32 LONG 079 08 19)									
OCT., 1972									
11...	1200	9.9	300	0	50	22	18	10	12
SEP., 1973									
18...	1500	1.7	300	0	0	66	54	--	--
03029300 - COLEMAN RUN NR COOKSBURG, PA. (LAT 41 20 39 LONG 079 10 02)									
SEP., 1973									
18...	1600	.48	400	0	0	36	30	--	--
03029400 - TOMS RUN AT COOKSBURG, PA. (LAT 41 20 16 LONG 079 12 50)									
OCT., 1972									
17...	1200	8.3	700	0	100	12	10	50	4.8
SEP., 1973									
19...	1300	1.0	200	0	50	26	21	--	--
03029510 - CATHERS RUN AT MOUTH, PA. (LAT 41 19 00 LONG 079 13 59)									
OCT., 1972									
17...	1200	16	300	0	500	26	21	2.8	.8
SEP., 1973									
19...	1430	4.8	300	0	50	47	39	--	--

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03029185 - SPRING CREEK NEAR HALLTON, PA. (LAT 41 24 59 LONG 078 56 52)									
OCT., 1972 06...	34	4	.0	.0	100	6.7	13.8	11.2	11
APR., 1973 17...	17	9	.0	.0	50	7.1	9.5	--	1.3
SEP. 18...	51	15	.0	.0	120	6.1	14.5	10.2	56
03029188 - MAXWELL RUN AT MOUTH, PA. (LAT 41 23 05 LONG 078 56 08)									
OCT., 1972 06...	31	10	.0	.0	75	6.6	12.2	11.0	10
SEP., 1973 19...	17	12	.0	.0	50	4.8	9.7	13.2	152
03029190 - WYNCOOP RUN NR CLARINGTON, PA. (LAT 41 21 26 LONG 079 02 20)									
SEP., 1973 18...	29	0	.0	.0	120	6.5	13.0	9.8	24
03029195 - MILLSTONE CR NR CLARINGTON, PA. (LAT 41 21 19 LONG 079 04 18)									
OCT., 1972 11...	34	16	.0	.0	90	6.6	8.8	12.8	8.8
SEP., 1973 18...	54	0	.0	.0	160	6.5	14.5	10.0	33
03029205 - CLEAR CR AT MOUTH, PA. (LAT 41 19 48 LONG 079 06 11)									
OCT., 1972 17...	34	13	.0	.0	70	6.3	8.4	10.8	21
SEP., 1973 18...	39	13	.0	.0	80	6.6	9.5	11.2	13
03029250 - MAPLE CR NR CLARINGTON, PA. (LAT 41 20 32 LONG 079 08 19)									
OCT., 1972 11...	34	16	.0	.0	90	6.3	7.2	13.0	18
SEP., 1973 18...	38	0	.0	.0	140	6.5	12.5	10.0	33
03029300 - COLEMAN RUN NR COOKSBURG, PA. (LAT 41 20 39 LONG 079 10 02)									
SEP., 1973 18...	34	4	.0	.0	100	6.2	12.5	10.0	36
03029400 - TOMS RUN AT COOKSBURG, PA. (LAT 41 20 16 LONG 079 12 50)									
OCT., 1972 17...	50	40	.0	.0	130	6.4	8.0	11.8	7.6
SEP., 1973 19...	81	60	.0	.0	240	5.6	11.0	11.2	104
03029510 - CATHERS RUN AT MOUTH, PA. (LAT 41 19 00 LONG 079 13 59)									
OCT., 1972 17...	18	0	.0	.0	45	6.7	8.4	11.2	8.3
SEP., 1973 19...	54	15	.0	.0	130	6.4	12.0	10.8	30

OHIO RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03029700 - MILL CREEK NR STRATTANVILLE, PA. (LAT 41 14 15 LONG 079 17 11)									
OCT., 1972									
18...	1200	42	5600	2200	7000	0	0	222	12
NOV.									
03...	1200	308	1100	900	1500	0	0	93	5.0
APR., 1973									
18...	1050	188	2200	950	2300	0	0	--	5.8
SEP.									
19...	1515	19	4400	2400	6200	0	0	294	14
03030500 - CLARION RIVER NEAR PINEY, PA. (LAT 41 11 33 LONG 079 26 25)									
SEP., 1973									
17...	1000	--	2400	1800	3900	2	2	217	16
03030600 - PINEY CREEK AT PINEY, PA. (LAT 41 10 12 LONG 079 28 20)									
NOV., 1972									
13...	1000	92	3100	2400	3500	0	0	250	10
APR., 1973									
18...	1200	--	4500	--	3100	0	0	--	--
SEP.									
17...	1045	15	8000	4400	13000	0	0	404	26
03030700 - DEER CREEK AT PINEY, PA. (LAT 41 10 24 LONG 079 28 41)									
OCT., 1972									
03...	1300	400	1300	1100	500	0	0	108	10
NOV.									
13...	1200	124	1700	800	2500	0	0	--	21
APR., 1973									
18...	1200	164	3000	--	2000	0	0	--	--
SEP.									
17...	1200	9.1	2600	400	5300	0	0	324	23
03030750 - CANOE CREEK NEAR CALLENSBURG, PA. (LAT 41 09 46 LONG 079 31 57)									
SEP., 1973									
20...	0900	2.9	350	--	0	34	28	--	58
03030890 - CHERRY RUN AT CALLENSBURG, PA. (LAT 41 06 47 LONG 079 33 56)									
SEP., 1973									
20...	1230	7.2	2000	900	5600	4	3	570	6.8
03030900 - LICKING CREEK AT CALLENSBURG PA (LAT 41 07 25 LONG 079 34 06)									
APR., 1973									
18...	1200	140	7500	--	4400	0	0	422	9.8
SEP.									
20...	1415	20	15000	11500	19000	0	0	--	--
03030950 - TURKEY RUN NEAR ST. PETERSBURG, PA. (LAT 41 10 02 LONG 079 37 18)									
SEP., 1973									
20...	1415	1.2	520	0	160	80	66	94	57
03031605 - NARROWS CR NR SABULA, PA. (LAT 41 08 18 LONG 078 41 47)									
MAR., 1973									
27...	1330	9.2	700	--	500	12	10	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03029700 - MILL CREEK NR STRATTANVILLE, PA. (LAT 41 14 15 LONG 079 17 11)									
OCT., 1972 18...	150	150	49	1.0	520	4.6	4.8	13.1	.0
NOV. 03...	--	--	12	.2	220	3.9	8.8	--	.0
APR., 1973 18...	120	120	17	.3	340	3.8	8.8	--	.0
SEP. 19...	150	150	46	.9	650	3.1	15.5	10.2	.0
03030500 - CLARION RIVER NEAR PINEY, PA. (LAT 41 11 33 LONG 079 26 25)									
SEP., 1973 17...	68	66	12	.2	268	4.6	20.0	7.8	--
03030600 - PINEY CREEK AT PINEY, PA. (LAT 41 10 12 LONG 079 28 20)									
NOV., 1972 13...	190	190	39	.8	515	--	5.8	11.6	--
APR., 1973 18...	210	210	25	.5	475	3.9	--	--	.0
SEP. 17...	320	320	60	1.2	900	3.3	13.5	9.2	.0
03030700 - DEER CREEK AT PINEY, PA. (LAT 41 10 24 LONG 079 28 41)									
OCT., 1972 03...	98	98	40	.8	255	3.4	9.4	11.6	.0
NOV. 13...	100	100	41	.8	320	3.7	6.2	14.0	.0
APR., 1973 18...	120	120	34	.7	375	3.4	11.0	--	.0
SEP. 17...	250	250	58	1.2	750	3.1	14.0	9.8	.0
03030750 - CANOE CREEK NEAR CALLENSBURG, PA. (LAT 41 09 46 LONG 079 31 57)									
SEP., 1973 20...	100	72	.0	.0	480	6.5	9.0	8.2	17
03030890 - CHERRY RUN AT CALLENSBURG, PA. (LAT 41 06 47 LONG 079 33 56)									
SEP., 1973 20...	570	570	4.9	.1	1100	5.3	12.0	10.0	--
03030900 - LICKING CREEK AT CALLENSBURG PA (LAT 41 07 25 LONG 079 34 06)									
APR., 1973 18...	410	410	20	.4	850	4.0	10.5	--	.0
SEP. 20...	700	700	68	1.4	1800	--	13.0	8.0	--
03030950 - TURKEY RUN NEAR ST. PETERSBURG, PA. (LAT 41 10 02 LONG 079 37 18)									
SEP., 1973 20...	160	94	.0	.0	455	6.8	13.0	10.6	20
03031605 - NARROWS CR NR SABULA, PA. (LAT 41 08 18 LONG 078 41 47)									
MAR., 1973 27...	86	76	.0	.0	230	7.1	8.0	--	1.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03031620 - LABORDE BRANCH NR HOMECAMP, PA. (LAT 41 06 18 LONG 078 42 52)									
MAR., 1973									
27...	1530	25	450	0	1400	7	6	--	--
APR.									
16...	1400	25	400	--	50	3	2	--	--
03031625 - CLEAR RUN AT DU BOIS, PA. (LAT 41 07 48 LONG 078 46 01)									
MAR., 1973									
29...	1200	--	1100	0	1000	0	0	--	--
03031700 - SOLDIER RUN AT REYNOLDSVILLE, PA. (LAT 41 05 20 LONG 078 53 12)									
APR., 1973									
09...	1130	22	3500	2100	50	0	0	--	--
03031720 - TROUT RUN NR REYNOLDSVILLE, PA. (LAT 41 04 43 LONG 078 54 07)									
APR., 1973									
09...	1230	19	150	0	0	8	7	--	--
03031770 - SANDY LICK CREEK NEAR BROOKVILLE, PA. (LAT 41 09 20 LONG 079 03 12)									
MAR., 1973									
29...	1330	205	800	100	0	6	5	--	--
APR.									
16...	1315	252	500	--	50	4	3	--	--
03031870 - MILL CREEK AT BROOKVILLE, PA. (LAT 41 09 23 LONG 079 03 12)									
MAR., 1973									
29...	1600	62	500	0	0	14	11	--	--
APR.									
17...	1145	222	500	0	0	4	3	--	--
SEP.									
18...	1000	23	300	--	0	44	36	--	--
03031880 - NORTH FORK AT BROOKVILLE, PA. (LAT 41 09 36 LONG 079 04 24)									
APR., 1973									
17...	0945	117	250	100	0	2	2	--	--
SEP.									
18...	1200	32	300	--	0	52	43	--	--
03031882 - REDBANK CREEK AT BROOKVILLE, PA. (LAT 41 09 29 LONG 079 04 52)									
APR., 1973									
17...	1300	43	500	0	0	3	2	--	--
SEP.									
18...	1300	123	700	--	0	40	33	--	--
03031886 - CODER RUN NR BROOKVILLE, PA. (LAT 41 08 46 LONG 079 06 59)									
SEP., 1973									
18...	1500	4.0	350	--	900	14	11	--	--
03031888 - SIMPSON RUN AT BAXTER, PA. (LAT 41 08 01 LONG 079 09 26)									
SEP., 1973									
19...	1450	.60	2200	--	12800	6	5	--	24

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03031620 - LABORDE BRANCH NR HOMECAMP, PA. (LAT 41 06 18 LONG 078 42 52)									
MAR., 1973 27...	170	160	.0	.0	340	6.5	8.0	13.2	3.5
APR. 16...	120	120	.0	.0	300	6.0	11.5	--	4.8
03031625 - CLEAR RUN AT DU BOIS, PA. (LAT 41 07 48 LONG 078 46 01)									
MAR., 1973 29...	140	140	15	.3	340	4.0	7.8	10.8	.0
03031700 - SOLDIER RUN AT REYNOLDSVILLE, PA. (LAT 41 05 20 LONG 078 53 12)									
APR., 1973 09...	120	120	44	.9	400	3.5	6.0	10.6	.0
03031720 - TROUT RUN NR REYNOLDSVILLE, PA. (LAT 41 04 43 LONG 078 54 07)									
APR., 1973 09...	68	61	.0	.0	180	6.0	6.8	12.2	13
03031770 - SANDY LICK CREEK NEAR BROOKVILLE, PA. (LAT 41 09 20 LONG 079 03 12)									
MAR., 1973 29...	86	81	.0	.0	260	5.5	8.8	12.0	30
APR. 16...	86	83	.0	.0	210	6.1	10.0	--	5.1
03031870 - MILL CREEK AT BROOKVILLE, PA. (LAT 41 09 23 LONG 079 03 12)									
MAR., 1973 29...	57	46	.0	.0	165	6.3	8.0	11.8	11
APR. 17...	85	82	.0	.0	210	5.9	11.5	17.0	8.1
SEP. 18...	68	32	.0	.0	200	6.6	13.3	9.9	18
03031880 - NORTH FORK AT BROOKVILLE, PA. (LAT 41 09 36 LONG 079 04 29)									
APR., 1973 17...	34	32	.0	.0	75	6.3	10.4	16.0	1.6
SEP. 18...	39	8	.0	.0	100	6.7	15.1	9.6	17
03031882 - REDBANK CREEK AT BROOKVILLE, PA. (LAT 41 09 29 LONG 079 04 52)									
APR., 1973 17...	68	66	.0	.0	215	6.1	11.2	--	3.8
SEP. 18...	100	67	.0	.0	270	7.4	14.8	9.6	2.5
03031886 - CODER RUN NR BROOKVILLE, PA. (LAT 41 08 46 LONG 079 06 59)									
SEP., 1973 18...	68	57	.0	.0	207	6.6	12.7	10.1	5.6
03031888 - SIMPSON RUN AT BAXTER, PA. (LAT 41 08 01 LONG 079 09 26)									
SEP., 1973 19...	360	360	49	1.0	1000	5.6	13.0	9.3	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED IRON (FE) (UG/L)	FERROUS IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
03031896 - RUNAWAY RUN AT SUMMERVILLE, PA. (LAT 41 07 04 LONG 079 11 47)									
APR., 1973									
16...	1300	5.9	11000	4400	3000	0	0	--	--
03031900 - BEAVER RUN AT HEATHVILLE, PA. (LAT 41 05 25 LONG 079 10 52)									
APR., 1973									
16...	1500	11	4500	2500	1800	0	0	--	--
03031950 - BIG RUN NEAR SPRANKLE MILLS, PA (LAT 40 59 30 LONG 079 05 26)									
SEP., 1973									
19...	1530	1.5	500	20	200	78	64	--	--
03031980 - LITTLE SANDY CREEK NEAR NORTH FREEDOM, PA. (LAT 41 01 58 LONG 079 11 05)									
APR., 1973									
17...	1430	90	100	50	0	8	7	--	--
SEP.									
18...	0945	39	2500	300	900	32	26	--	--
03032025 - PINE CR AT MAYPORT, PA. (LAT 41 02 17 LONG 079 15 31)									
APR., 1973									
17...	1330	15	200	0	1300	12	10	--	--
03032055 - TOWN RUN NR HAWTHORN, PA. (LAT 41 00 56 LONG 079 17 56)									
APR., 1973									
16...	1430	14	800	550	4800	9	7	--	--
03032100 - LEISURE RUN AT NEW BETHLEHEM, PA. (LAT 41 00 13 LONG 079 19 41)									
APR., 1973									
16...	1230	8.4	600	100	2600	6	5	--	--
03032400 - LEATHERWOOD CREEK NEAR NEW BETHLEHEM, PA. (LAT 41 01 12 LONG 079 23 14)									
APR., 1973									
16...	1600	22	150	0	2000	4	3	--	4.4
03032500 - REDBANK CREEK AT ST. CHARLES, PA. (LAT 40 59 40 LONG 079 23 40)									
APR., 1973									
17...	1030	901	400	50	1000	3	2	--	8.4
SEP.									
19...	1315	552	450	30	800	22	18	--	19
03032700 - WILDCAT RUN NR RIMERSBURG, PA. (LAT 41 01 45 LONG 079 28 53)									
APR., 1973									
16...	1130	4.1	11500	6200	2500	0	0	--	--
SEP.									
17...	1600	.48	9000	1400	8400	0	0	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
03031896 - RUNAWAY RUN AT SUMMERVILLE, PA. (LAT 41 07 04 LONG 079 11 47)									
APR., 1973 16...	--	--	80	1.6	1300	3.1	12.2	12.2	.0
03031900 - BEAVER RUN AT HEATHVILLE, PA. (LAT 41 05 25 LONG 079 10 52)									
APR., 1973 16...	530	530	17	.4	625	4.0	11.6	15.0	.0
03031950 - BIG RUN NEAR SPRANKLE MILLS, PA (LAT 40 59 30 LONG 079 05 26)									
SEP., 1973 19...	170	110	.0	.0	338	6.7	12.5	10.0	25
03031980 - LITTLE SANDY CREEK NEAR NORTH FREEDOM, PA. (LAT 41 01 58 LONG 079 11 05)									
APR., 1973 17...	100	93	.0	.0	240	6.0	12.0	14.0	13
SEP. 18...	180	150	.0	.0	380	--	14.5	13.0	--
03032025 - PINE CR AT MAYPORT, PA. (LAT 41 02 17 LONG 079 15 31)									
APR., 1973 17...	150	140	.0	.0	320	6.7	12.0	13.4	3.8
03032055 - TOWN RUN NR HAWTHORN, PA. (LAT 41 00 56 LONG 079 17 56)									
APR., 1973 16...	290	280	.0	.0	580	6.1	14.0	--	11
03032100 - LEISURE RUN AT NEW BETHLEHEM, PA. (LAT 41 00 13 LONG 079 19 41)									
APR., 1973 16...	380	380	.0	.0	760	5.9	13.0	--	12
03032400 - LEATHERWOOD CREEK NEAR NEW BETHLEHEM, PA. (LAT 41 01 12 LONG 079 23 14)									
APR., 1973 16...	290	290	.0	.0	550	5.6	14.0	--	16
03032500 - REDBANK CREEK AT ST. CHARLES, PA. (LAT 40 59 40 LONG 079 23 40)									
APR., 1973 17...	100	98	2.4	.0	230	5.5	12.0	14.4	15
SEP. 19...	190	170	.0	.0	480	--	16.0	10.7	--
03032700 - WILDCAT RUN NR RIMERSBURG, PA. (LAT 41 01 45 LONG 079 28 53)									
APR., 1973 16...	330	330	100	2.0	850	3.4	11.0	13.2	.0
SEP. 17...	510	510	66	1.3	1300	3.6	15.5	9.2	.0

LAKES IN OHIO RIVER BASIN

403054080224000 RACCOON LAKE.--Lat 40°30'54", long 80°22'40", Beaver County, 6 miles (9.7 km) west of Pittsburgh at point 300 ft (91 m) upstream from dam on Traverse Creek. Drainage area, 19.1 mi^2 (49.5 km^2). Surface area, 101 acres (40.9 mi^2). Capacity at normal pool elevation of 900 ft (274 m), 292 acre-feet (360,000 m^3). Mean flow-through-time, 7.5 days at 19.6 ft^3/s (0.56 m^3/s). Period of record, chemical analyses, water year 1973 (partial-record station). Lake is used for recreation. Beaches have been closed intermittently due to high bacteria counts.

395323080270000 RYERSON STATION LAKE.--Lat 39°53'23", long 80°27'00°, Green County, 14 miles (22.5 km) west of Waynesburg at point 200 ft (61 m) upstream from dam on North Fork of Dunkard Fork of Wheeling Creek. Drainage area 25.9 mi^2 (67.1 km^2). Surface area, 62 acres (25.1 m^2). Capacity at normal pool elevation of 965 ft (294 m), 268 acre-feet (331,000 m^3). Mean flow-through-time, 4.8 days at 28.5 ft^3/s (0.81 m^3/s). Period of record, chemical analyses, water year 1973 (partial-record station). Lake is used for recreation.

403054080224000 RACCOON LAKE (LAT 40 30 54 LONG 080 22 40)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
AUG.										
02...	1430	5.7	0	20	30	7.3	6.2	2.4	72	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
AUG.										
02...	59	46	8.0	.3	.50	.00	.50	.07	.19	.26

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
AUG.									
02...	.01	.01	175	144	110	46	248	7.8	4

DATE	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG.									
02...	1.8	.0	0	0	0	0	2	0	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD LAKES

OHIO RIVER BASIN

395323080270000 RYERSON STATION LAKE (LAT 39 53 23 LONG 080 27 00)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
AUG. 03...	0930	2.6	0	20	31	4.9	4.6	1.9	93	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
AUG. 03...	76	23	4.3	.1	.01	.00	.01	.19	.50	.69

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
AUG. 03...	.03	.03	142	119	98	21	214	7.4	5

DATE	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG. 03...	5.9	1.0	0	0	0	20	2	0	20

SECTION B

SEDIMENT RECORDS

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01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 41°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, and 4.0 miles (6.4 km) downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 mi^2 (10,749 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-72 (partial-record station), October 1972 to September 1973.
Water temperatures: October 1966 to September 1973.
Sediment records: July 1964 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 640 mg/l June 30; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 165,000 tons (150,000 t) June 30; minimum daily, 5.2 tons (4.8 t) Aug. 1.

Period of record:
Sediment concentrations: Maximum daily, 640 mg/l June 30, 1973; minimum daily, less than 0.5 mg/l on many days.
Sediment discharges: Maximum daily, 165,000 tons (150,000 t) June 30, 1973; minimum daily, less than 0.05 tons (0.04 t) on many days.

REMARKS.--Chemical analyses for this station on page 56 . Records of discharge are given for 01440200 Delaware River below Tocks Island damsite near Delaware Water Gap, Pa.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2100	3	17	2780	1	7.5	10000	2	54
2	1800	2	9.7	2780	1	7.5	9200	1	25
3	1780	3	14	2780	1	7.5	8400	3	68
4	2040	5	28	3800	1	10	7500	2	41
5	2040	9	50	4460	1	12	7600	8	164
6	2010	6	33	3830	1	10	8060	27	588
7	2540	4	27	4320	5	58	25000	18	1220
8	3300	2	18	5000	5	68	20000	52	2810
9	2900	2	16	35000	6	567	17000	14	643
10	2400	2	13	30000	61	4940	19000	6	309
11	2600	1	7.0	20000	87	4700	17000	5	230
12	2400	1	6.5	13000	27	948	14500	3	117
13	2200	2	12	10000	6	162	13800	4	149
14	2200	1	5.9	11300	3	92	12900	4	139
15	2200	1	5.9	40000	19	2050	11700	2	63
16	2200	1	5.9	27000	45	3280	10300	1	28
17	2200	3	18	18000	27	1310	9540	1	26
18	2100	14	79	13000	5	176	8940	2	48
19	2500	6	41	10000	25	675	7300	1	20
20	2200	3	18	13000	2	70	6780	4	73
21	2500	1	6.6	15000	21	851	7100	11	211
22	2300	1	6.2	11000	5	149	8380	5	113
23	2200	2	12	9000	4	97	17000	31	1420
24	2200	4	24	8200	50	1110	15500	6	251
25	2100	3	17	7780	9	189	13200	4	143
26	2300	3	19	9140	6	148	12300	4	133
27	2600	2	14	15800	19	811	13000	5	176
28	2600	2	14	15000	8	324	12500	3	101
29	2600	1	7.0	13000	3	105	11300	1	31
30	3100	1	8.4	12000	5	162	10100	1	27
31	3000	1	8.1	--	--	--	10300	4	111
TOTAL	73210	--	561.4	385970	--	23096.5	375200	--	9531

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21100	18	1030	6600	4	71	3080	2	17
2	31700	16	1370	8000	38	821	3110	3	25
3	25500	18	1240	22000	146	8670	2720	3	22
4	20700	9	503	26000	100	7020	3590	6	58
5	18000	9	437	20000	26	1400	5580	11	166
6	15300	8	330	18000	9	437	7100	17	326
7	13000	5	176	14100	6	228	7100	12	230
8	11000	7	208	11900	4	129	6670	16	288
9	9000	4	97	10800	7	204	10300	17	473
10	8200	4	89	9540	11	283	11300	21	641
11	7400	5	100	9340	9	227	9740	7	184
12	6400	3	52	7300	8	158	8940	6	145
13	5800	6	94	7340	11	218	9260	10	250
14	5200	4	56	6900	10	186	8900	5	120
15	4700	2	25	6670	3	54	8900	8	192
16	5200	1	14	6180	1	17	10000	8	216
17	5000	2	27	5970	3	48	12000	11	356
18	5000	2	27	5480	2	30	19000	56	2870
19	5400	9	131	4780	2	26	16000	44	1900
20	6400	12	207	5230	1	14	14000	8	302
21	6400	9	156	4710	1	13	12000	13	421
22	5600	5	76	4360	3	35	9940	26	698
23	11100	35	1050	4070	1	11	9500	14	359
24	13600	57	2090	3470	2	19	8020	9	195
25	10400	19	534	3110	2	17	7060	4	76
26	8900	8	192	2630	1	7.1	7220	3	59
27	7940	4	86	3140	1	8.5	9420	5	127
28	7980	5	108	3020	5	41	9140	3	74
29	7660	17	352	--	--	--	8180	4	88
30	8060	8	174	--	--	--	7500	4	81
31	7740	5	104	--	--	--	6940	2	37
TOTAL	325380	--	11135	240640	--	20342.6	272210	--	10495

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7020	4	76	7540	9	183	11200	16	484
2	15700	9	382	7060	8	152	10100	15	409
3	25600	34	2350	6530	7	123	8940	15	362
4	25600	10	691	6860	8	148	8060	14	305
5	40700	79	8680	6670	7	126	9180	19	471
6	40700	80	8790	5270	7	100	9500	20	513
7	30100	26	2110	5020	7	95	12400	17	569
8	24700	15	1000	5130	9	125	21100	59	3360
9	22600	12	732	5090	8	110	14100	16	609
10	21800	13	765	6700	12	217	10300	9	250
11	25700	20	1390	15000	56	2270	8460	15	343
12	22600	13	793	20100	18	977	8580	17	394
13	17700	7	335	17700	15	717	7820	14	296
14	14300	5	193	15900	13	558	8060	17	370
15	12200	3	99	14200	10	383	6740	16	291
16	10700	5	144	14100	12	457	5550	11	165
17	9540	4	103	14500	15	587	4740	7	90
18	8660	4	94	22700	46	2820	4250	5	57
19	8260	7	156	30800	31	2580	4460	7	84
20	7820	6	127	25600	25	1730	4160	4	45
21	6600	6	107	25300	25	1710	4810	5	65
22	6210	4	67	27800	53	3980	5580	8	121
23	5900	2	32	23800	28	1800	6530	9	159
24	6740	7	127	19400	18	943	4640	6	75
25	6070	7	115	16200	15	656	4320	6	70
26	5900	6	96	13900	15	563	6180	9	150
27	6140	9	149	12400	14	469	6110	8	132
28	8220	11	244	11900	14	450	5410	5	73
29	8300	9	202	13800	14	522	18200	410	20100
30	7700	9	187	15300	22	909	95600	640	165000
31	--	--	--	12900	17	592	--	--	--
TOTAL	459780	--	30336	445170	--	27052	335080	--	195412

01442750 DELAWARE RIVER AT DUNNFIELD, N.J. (DELAWARE WATER GAP, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	66300	37	6620	1930	1	5.2	3360	2	18
2	40200	59	6400	3920	11	116	2600	1	7.0
3	25400	47	3220	15000	37	1500	2200	1	5.9
4	19000	26	1330	11400	25	770	2600	1	7.0
5	15800	17	725	7460	17	342	2400	1	6.5
6	13300	13	467	5550	9	135	2400	1	6.5
7	11300	8	244	5270	9	128	2400	1	6.5
8	9380	5	127	4360	7	82	2300	1	6.2
9	8460	4	91	4990	10	135	2400	1	6.5
10	7580	3	61	4390	6	71	2300	1	6.2
11	6320	1	17	4290	3	35	2400	1	6.5
12	4670	1	13	3740	2	20	2500	1	6.8
13	3740	2	20	2840	5	38	2600	1	7.0
14	4100	2	22	3530	9	86	2700	1	7.3
15	3770	1	10	3680	6	60	3500	1	9.5
16	3980	2	21	6460	13	227	3000	1	8.1
17	5060	4	55	7420	5	100	2600	1	7.0
18	4530	1	12	6250	5	84	2700	3	22
19	3890	1	11	4360	3	35	3300	2	18
20	3890	2	21	3920	4	42	2800	2	15
21	3860	1	10	4360	2	24	2640	1	7.1
22	3770	1	10	3770	3	31	2700	3	22
23	2990	2	16	3170	4	34	3000	2	16
24	2390	2	13	2960	1	8.0	3300	2	18
25	1980	1	5.3	2630	1	7.1	3600	2	19
26	2150	1	5.8	2450	1	6.6	3200	1	8.6
27	2450	1	6.6	2630	1	7.1	3500	1	9.5
28	4250	25	287	3350	2	18	3600	1	9.7
29	4070	11	121	4070	2	22	3100	1	8.4
30	2360	4	25	3710	1	10	2900	1	7.8
31	2180	2	12	3200	1	8.6	--	--	--
TOTAL	293120	--	19998.7	147060	--	4187.6	84600	--	309.6

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 3437420
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 353007.4

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)
(International hydrological decade river station and radiochemical station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, at gaging station. Water-quality recorder located at raw-water intake of the Trenton Water Department about 600 ft (183 m) upstream from bridge on Calhoun Street in Trenton.

DRAINAGE AREA.--6,780 mi^2 (17,560 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1973.
Water temperatures: October 1944 to September 1973.
Sediment records: September 1949 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 1,220 mg/l June 30; minimum daily, 1 mg/l Jan. 13.
Sediment discharges: Maximum daily, 359,000 tons (326,000 t) June 30; minimum daily, 9.5 tons (8.6 t) Oct. 26.

Period of record:
Sediment concentrations: Maximum daily, 1,720 mg/l Nov. 26, 1950; minimum daily, less than 0.5 mg/l Oct. 21, 1952 and Jan. 18, 1970.
Sediment discharges: Maximum daily, 1,087,000 tons (986,000 t) Aug. 20, 1955; minimum daily, less than 0.50 tons (0.45 t) Oct. 21, 1952.

REMARKS.--Chemical analyses for this station on page 95 . Operated as part of the USGS-EPA surveillance network. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1779-X.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3990	3	32	5360	3	43	23400	7	442
2	3840	3	31	4900	4	53	21100	6	342
3	3600	3	29	5230	6	86	18900	5	254
4	3320	2	19	5360	7	101	16800	5	227
5	3420	3	28	6150	17	282	16000	5	216
6	3490	12	113	7180	20	388	17400	10	470
7	4900	78	1030	6240	23	388	27000	88	6420
8	5590	52	785	14600	130	5120	41900	50	5660
9	5550	11	165	45100	333	40500	42200	17	1940
10	5360	7	101	63100	208	35400	37900	17	1740
11	4020	5	56	42500	58	6660	37500	16	1620
12	4200	3	34	28000	29	2190	32300	9	785
13	3990	3	32	22300	16	963	28700	6	465
14	3860	3	31	29200	19	1500	25500	5	344
15	3840	2	21	45900	67	8300	24200	6	392
16	3700	2	20	57300	69	10700	25100	12	813
17	3700	2	20	40900	25	2760	21500	11	639
18	3770	2	20	30100	13	1060	19300	5	247
19	3760	2	20	23500	15	952	16300	3	132
20	3840	2	21	27400	60	4440	16100	3	130
21	3990	2	22	27700	17	1270	16900	6	274
22	3740	2	20	27000	8	583	23000	34	2110
23	3880	1	10	22700	6	368	29900	26	1940
24	3670	1	9.9	19500	5	263	34000	15	1380
25	3630	1	9.8	16200	5	219	28800	8	622
26	3530	1	9.5	18600	13	653	25600	6	415
27	3600	1	9.7	27500	28	2080	24500	5	331
28	4240	6	69	30300	57	4660	23700	3	192
29	5160	15	209	26100	20	1410	21900	3	177
30	5790	13	203	23800	8	514	19600	3	159
31	5790	5	78	--	--	--	19400	3	157
TOTAL	128720	--	3254.9	749770	--	133906	775300	--	31035

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	30200	17	1390	15500	11	460	7670	2	41
2	44300	67	8010	21900	210	12400	7560	2	41
3	43600	29	3410	43800	347	41000	7670	3	62
4	37300	14	1410	54200	119	17400	8220	4	89
5	33700	11	1000	43700	40	4720	9910	4	107
6	29100	7	550	35700	25	2410	12300	5	166
7	24400	5	329	31700	20	1710	13500	5	182
8	20100	4	217	28300	13	993	13900	6	225
9	16900	6	274	25900	13	909	15400	9	374
10	15600	5	211	21500	8	464	18600	14	703
11	14600	3	118	18300	7	346	17800	12	577
12	14000	2	76	16500	6	267	16500	9	401
13	13000	1	35	14400	7	272	15400	8	333
14	12100	2	65	14000	17	643	14900	7	282
15	10900	1	29	15100	19	775	14900	6	241
16	10900	1	29	16200	10	437	15500	6	251
17	11100	3	90	14000	9	340	18800	8	406
18	10900	6	177	12100	7	229	23900	56	3610
19	10800	4	117	11700	7	221	29500	74	5890
20	11600	4	125	11100	6	180	25200	27	1840
21	12300	3	100	11900	4	129	21900	15	887
22	12600	9	306	11400	3	92	19500	9	474
23	15500	88	3680	10600	4	114	17900	6	290
24	22800	128	7880	9910	5	134	16100	5	217
25	22000	98	5820	8970	4	97	14200	4	153
26	18000	23	1120	8390	3	68	17200	50	2320
27	17500	20	945	7830	3	63	17700	23	1100
28	21300	128	7360	7940	2	43	17200	14	650
29	26000	280	19700	--	--	--	15700	11	466
30	19800	23	1230	--	--	--	14200	14	537
31	17400	8	376	--	--	--	13500	7	255
TOTAL	620200	--	66179	542540	--	86916	492230	--	23170

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13900	12	450	15200	8	328	22900	34	2100
2	24800	156	10400	14400	6	233	20300	25	1370
3	37400	85	8580	13800	5	186	18300	18	889
4	43600	61	7180	13700	5	185	16400	24	1060
5	50300	106	14400	13800	5	186	16000	30	1300
6	62300	104	17500	12600	3	102	16300	26	1140
7	49100	47	6230	11100	2	60	16300	24	1060
8	42100	27	3070	10800	5	146	26500	121	8660
9	38300	17	1760	12200	12	395	26300	54	3830
10	37200	12	1210	14400	18	700	19800	26	1390
11	40500	26	2840	18700	30	1510	16300	15	660
12	38400	14	1450	33200	133	11900	14400	31	1210
13	32100	8	693	31700	21	1800	13900	26	976
14	27600	7	522	27700	29	2170	12900	28	975
15	23900	6	387	24400	24	1580	12600	35	1190
16	21100	8	456	22700	20	1230	11300	7	214
17	19200	8	415	23200	13	814	10000	7	189
18	17900	7	338	26200	18	1270	8730	7	165
19	16700	7	316	39200	51	5400	8160	6	132
20	15900	8	343	38500	43	4470	8110	3	66
21	15100	6	245	34400	23	2140	8110	27	591
22	13700	7	259	36800	28	2780	9210	113	2810
23	13000	6	211	34800	24	2260	9450	34	868
24	12800	6	207	31300	20	1690	12700	274	9400
25	13200	10	356	26900	18	1310	11400	380	11700
26	14100	13	495	24000	15	972	10700	111	3210
27	14000	12	454	20900	15	846	11400	16	492
28	17700	64	3060	23400	95	6000	11000	26	772
29	18200	23	1130	27500	225	16700	27100	548	40100
30	16300	11	484	28000	111	8390	109000	1220	359000
31	--	--	--	26900	40	2910	--	--	--
TOTAL	900400	--	85441	732400	--	80663	535570	--	457519

01463500 DELAWARE RIVER AT TRENTON, N.J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	108000	293	85400	5240	52	736	5070	15	205
2	64500	97	16900	18200	678	33300	5670	15	230
3	42500	79	9070	21100	728	41500	4390	20	237
4	36500	103	10200	23900	735	47400	4010	16	173
5	33400	75	6760	18200	410	20100	4580	21	260
6	29600	60	4800	13100	170	6010	4460	24	289
7	24700	45	3000	10700	33	953	3870	9	94
8	20700	21	1170	9780	25	660	4230	8	91
9	18600	17	854	8560	27	624	4120	6	67
10	16700	20	902	8560	43	994	3690	3	30
11	14800	19	759	8000	25	540	3940	2	21
12	12900	25	871	8850	24	573	3800	2	21
13	10100	20	545	7790	16	336	3800	3	31
14	8500	19	436	6950	16	300	4390	6	71
15	8790	48	1140	7100	27	518	8620	65	1510
16	8390	15	340	7360	31	616	9840	28	744
17	8330	28	630	10600	60	1720	7150	20	386
18	8730	37	872	10500	30	851	5580	16	241
19	8160	44	969	9210	14	348	6950	22	413
20	7510	37	750	7890	16	341	7720	20	417
21	8620	54	1260	7200	17	330	6410	13	225
22	11100	49	1470	7250	22	431	5360	7	101
23	9910	55	1470	6460	18	314	5450	4	59
24	8000	45	972	5670	17	260	5850	6	95
25	6750	62	1130	5240	9	127	6560	9	159
26	5940	21	337	4940	13	173	6460	9	157
27	5720	15	232	4780	14	181	5850	8	126
28	6040	16	261	4740	14	179	5670	6	92
29	7150	30	579	5110	32	442	6130	6	99
30	7150	20	386	5760	23	358	6700	7	127
31	5630	40	608	5150	14	195	--	--	--
TOTAL	573420	--	155073	283880	--	161410	166320	--	6771

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 6400750
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1291337.9

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV.							
09...	1700	13.0	44300	458	54800	22	24
FEB.							
02...	1700	3.0	23100	463	28900	34	45
MAY							
29...	1700	15.0	28900	596	46500	40	57
JUNE							
25...	1700	22.0	10100	391	10700	59	77
AUG.							
02...	1700	26.0	25000	1100	74300	40	57

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.						
09...	37	50	62	89	100	--
FEB.						
02...	60	76	98	100	--	--
MAY						
29...	72	88	91	96	100	--
JUNE						
25...	88	95	96	97	99	100
AUG.						
02...	75	89	99	99	100	--

01470500 SCHUYLKILL RIVER AT BERNE, PA.

LOCATION.--Lat 40°31'20", long 75°59'55", Berks County, at highway bridge 50 ft (15 m) downstream from gaging station at Berne, 0.5 mile (0.8 km) upstream from Mill Creek, and 6.5 miles (10.5 km) downstream from Little Schuylkill River.

DRAINAGE AREA.--355 mi^2 (919 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1947 to February 1953, October 1956 to September 1973.
Water temperatures: February 1948 to September 1953, December 1946 to September 1973.
Sediment records: October 1947 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 315 mg/l Nov. 8; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 5,000 tons (4,540 t) Nov. 8; minimum daily, 0.42 tons (0.38 t) Oct. 11.

Period of record:
Sediment concentrations: Maximum daily, 8,030 mg/l Nov. 4, 1947; minimum daily, 0 mg/l on many days during 1952 and 1968.
Sediment discharges: Maximum daily, 90,180 tons (81,800) Nov. 12, 1947; minimum daily, 0 tons (0 t) on many days during 1952 and 1968.

REMARKS.--Chemical analyses for this station on page 127. Unpublished records of specific conductance and pH of sediment samples available in the district office at Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	204	4	2.2	188	1	.51	1160	5	16
2	178	4	1.9	232	2	1.3	1030	4	11
3	164	3	1.3	275	5	3.7	960	5	13
4	159	2	.86	238	4	2.6	925	6	15
5	159	2	.86	226	4	2.4	914	4	9.9
6	169	2	.91	221	3	1.8	1750	55	260
7	288	5	3.9	199	3	1.6	3610	70	682
8	227	3	1.8	3820	315	5000	2810	19	144
9	183	2	.99	3780	112	1140	3610	30	292
10	164	1	.44	1860	32	161	3610	29	283
11	155	1	.42	1270	10	34	3180	20	172
12	155	2	.84	948	4	10	2570	14	97
13	159	2	.86	767	5	10	2280	11	65
14	164	3	1.3	2090	50	282	1780	7	34
15	169	3	1.4	2870	44	341	1630	7	31
16	164	3	1.3	1980	25	134	1890	13	66
17	159	3	1.3	1490	17	68	1480	8	32
18	150	2	.81	1190	10	32	1250	8	27
19	173	6	2.8	1020	6	17	1150	4	12
20	183	30	15	2060	35	195	1200	5	16
21	164	25	11	1610	34	148	1200	6	19
22	178	6	2.9	1350	28	102	2430	20	131
23	183	5	2.5	1190	12	39	2680	16	116
24	173	5	2.3	1020	20	55	2270	10	61
25	164	5	2.2	902	14	34	1890	7	36
26	159	4	1.7	2180	51	362	1640	8	35
27	159	5	2.1	2060	23	128	1550	8	33
28	226	12	7.3	1670	9	41	1280	8	28
29	350	10	9.5	1430	7	27	1100	6	18
30	250	4	2.7	1210	6	20	996	6	16
31	210	2	1.1	--	--	--	2570	36	250
TOTAL	5742	--	86.49	41346	--	8393.91	58315	--	3020.9

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3450	32	298	1160	8	25	387	6	6.3
2	2620	17	120	2510	80	542	380	5	5.1
3	2060	11	61	5530	140	2090	419	5	5.7
4	2180	13	77	3800	35	359	494	6	8.0
5	1910	8	41	2720	15	110	477	6	7.7
6	1660	8	36	2080	11	62	443	6	7.2
7	1390	6	23	1750	10	47	443	5	6.0
8	1290	6	21	1580	10	43	652	11	19
9	1100	17	50	1400	8	30	693	7	13
10	1000	10	27	1190	7	22	683	6	11
11	980	7	17	1070	7	20	767	6	12
12	820	6	13	960	8	21	724	6	12
13	778	5	11	844	8	18	642	6	10
14	714	9	17	800	7	15	603	5	8.1
15	693	8	15	1130	7	21	672	7	13
16	622	5	8.4	1010	7	19	612	8	13
17	584	3	4.7	778	7	15	1280	25	86
18	538	3	4.4	720	7	14	1880	30	152
19	556	5	7.5	660	8	14	1570	11	47
20	735	7	14	603	8	13	1320	9	32
21	566	4	6.1	593	7	11	1170	7	22
22	1050	90	629	575	6	9.3	1050	6	17
23	2720	85	721	529	5	7.1	822	6	13
24	1690	18	82	511	5	6.9	756	5	10
25	1350	5	18	485	7	9.2	714	10	19
26	1160	4	13	468	8	10	1030	23	64
27	1280	10	35	419	8	9.1	879	8	19
28	1600	8	35	395	7	7.5	683	5	9.2
29	2160	15	87	--	--	--	632	4	6.8
30	1670	10	45	--	--	--	642	4	6.9
31	1380	12	45	--	--	--	652	5	8.6
TOTAL	42226	--	2582.1	36270	--	3570.1	24171	--	669.8

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	937	13	33	622	1	1.7	1230	5	17
2	2340	39	246	603	1	1.6	1060	4	11
3	1990	18	97	756	5	10	960	3	7.8
4	2390	38	331	693	2	3.7	879	3	7.1
5	3370	42	382	584	3	4.7	822	3	6.7
6	2570	8	56	566	2	3.1	693	4	7.5
7	2010	4	22	538	3	4.4	1670	75	338
8	2280	22	135	502	4	5.4	1110	31	93
9	2040	25	138	867	8	19	913	8	20
10	2850	31	239	867	7	16	800	5	11
11	2660	12	86	2080	40	225	703	3	5.7
12	2160	7	41	1980	13	69	612	3	5.0
13	1780	4	19	1730	9	42	622	3	5.0
14	1480	3	12	1400	7	26	529	3	4.3
15	1290	1	3.5	1200	6	19	459	3	3.7
16	1120	1	3.0	1120	4	12	435	2	2.3
17	996	2	5.4	960	4	10	468	3	3.8
18	902	2	4.9	972	4	10	460	3	3.8
19	822	2	4.4	822	4	8.9	427	3	3.5
20	756	1	2.0	913	5	12	395	2	2.1
21	703	1	1.9	1170	7	22	372	5	5.0
22	662	2	3.6	960	5	13	380	4	4.1
23	642	1	1.7	879	9	21	357	2	1.9
24	662	2	3.6	890	9	22	372	1	1.0
25	556	1	1.5	867	4	9.4	419	2	2.3
26	714	1	1.9	778	5	11	336	3	2.7
27	642	1	1.7	767	5	10	315	3	2.6
28	844	3	6.8	1200	13	42	350	250	236
29	735	2	4.0	1990	27	145	2870	115	891
30	672	1	1.8	1660	9	40	1650	21	94
31	--	--	--	1490	9	36	--	--	--
TOTAL	43575	--	1888.7	32426	--	874.9	22676	--	1798.9

DELAWARE RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1190	8	26	714	35	67	235	1	.63
2	949	6	15	1970	44	234	218	1	.59
3	924	9	22	1080	10	29	201	1	.54
4	1250	22	74	811	2	4.4	201	4	2.2
5	1260	21	71	684	2	3.7	271	5	3.7
6	947	8	20	577	2	3.1	265	3	2.1
7	822	6	13	497	3	4.0	265	2	1.4
8	735	5	9.9	440	4	4.8	241	2	1.3
9	663	5	9.0	416	3	3.4	258	3	2.1
10	653	4	7.1	515	15	21	246	5	3.3
11	577	3	4.7	1570	100	424	224	3	1.8
12	523	3	4.2	778	17	36	206	3	1.7
13	489	3	4.0	789	9	19	201	3	1.6
14	472	2	2.5	568	6	9.2	1080	164	1350
15	447	1	1.2	515	6	8.3	2680	78	825
16	424	1	1.1	523	7	9.9	1020	15	41
17	371	1	1.0	455	6	7.4	674	12	22
18	357	2	1.9	416	5	5.6	1340	35	185
19	343	2	1.9	408	5	5.5	1260	15	51
20	322	1	.87	393	4	4.2	970	11	29
21	472	4	5.1	357	2	1.9	789	7	15
22	447	2	2.4	329	2	1.8	674	7	13
23	364	1	.98	315	1	.85	867	12	28
24	309	1	.83	296	1	.80	684	8	15
25	277	1	.75	290	1	.78	558	7	11
26	296	1	.80	296	3	2.4	506	6	8.2
27	296	1	.80	296	2	1.6	463	5	6.3
28	277	1	.75	258	1	.70	432	7	8.2
29	271	2	1.5	246	1	.66	577	10	16
30	277	1	.75	252	2	1.4	523	7	9.9
31	252	2	1.4	235	2	1.3	--	--	--
TOTAL	17256	--	306.43	17289	--	917.69	18129	--	2656.56

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 359421
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 26766.48

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV. 08...	1820	8180	11.0	475	10500	34	55	69
JAN. 22...	2340	4360	5.5	318	3740	41	56	68
JUNE 28...	1830	485	23.0	1780	2330	63	82	96

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV. 08...	76	90	91	94	98	100	--
JAN. 22...	84	90	91	95	98	99	100
JUNE 28...	98	99	100	--	--	--	--

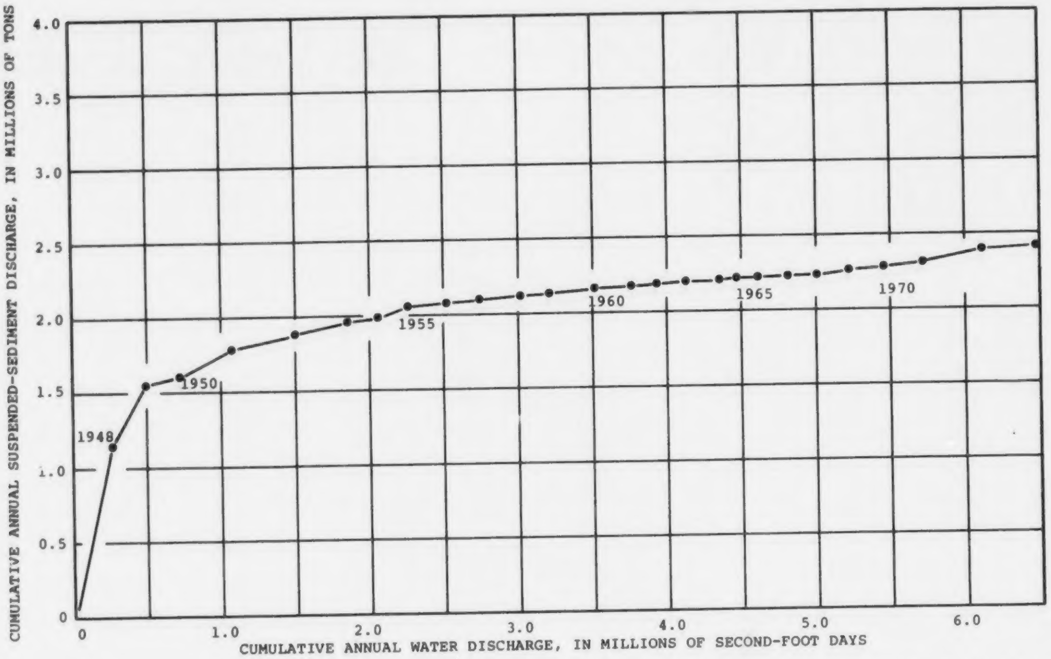

Figure 2.--Double mass accumulation of annual suspended-sediment discharge versus annual water discharge Schuylkill River at Berne, pa.

Table 6.--Suspended sediment concentration-duration table, Schuylkill River at Berne

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1973	104	90	45	28	13	9	7	6	5	4	3	2	2	1
1960-73	99	51	24	14	8	6	5	4	3	3	2	1	1	1

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.

LOCATION.--Lat 40°22'00", long 76°01'16", Berks County, 1.0 mile (1.6 km) downstream from gaging station at Rebers Bridge, 1.0 mile (1.6 km) east of Blue Marsh, 3 miles (4.8 km) north of Sinking Spring, and 5.5 miles (8.8 km) northwest of Reading.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--Chemical anlayses: June 1972 to September 1973.
Water temperatures: October 1968 to September 1973.
Sediment records: May to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 1,400 mg/l June 22; minimum daily, 4 mg/l July 13-15, Sept. 11, 29.
Sediment discharges: Maximum daily, 8,350 tons (7,580 t) June 22; minimum daily, 0.98 tons (0.89 t) Sept. 11.

Period of record:
Sediment concentrations: Maximum daily, 1,400 mg/l June 22, 1973; minimum daily, 4 mg/l July 13-15, Sept. 11, 29, 1973.
Sediment discharges: Maximum daily, 8,350 tons (7,580 t) June 22, 1973; minimum dialy, 0.98 tons (0.89 t) Sept. 11, 1973.

REMARKS.--Chemical analyses for this station on page 140. Temperature recorder located at gaging station 1.0 mile (1.6 km) upstream from sampling site.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	543	--	--	318	--	--	767	88	[illegible]
2	1620	--	--	296	--	--	655	81	[illegible]
3	1120	--	--	318	--	--	566	67	[illegible]
4	880	--	--	296	--	--	537	150	[illegible]
5	880	--	--	272	--	--	673	230	418
6	866	--	--	260	--	--	456	65	80
7	715	--	--	245	--	--	1160	1120	4320
8	901	--	--	237	--	--	589	180	286
9	748	--	--	309	--	--	482	95	124
10	1190	--	--	276	--	--	420	66	75
11	923	--	--	335	--	--	376	55	56
12	761	--	--	288	--	--	335	43	39
13	631	--	--	288	--	--	532	750	1080
14	543	--	--	256	--	--	344	420	390
15	482	--	--	252	--	--	296	62	50
16	435	--	--	260	--	--	288	52	40
17	410	--	--	241	--	--	284	42	32
18	391	--	--	260	--	--	284	40	31
19	363	--	--	230	--	--	272	30	22
20	331	--	--	309	37	31	252	28	19
21	318	--	--	401	74	80	340	323	583
22	314	--	--	309	23	19	901	1400	4470
23	318	--	--	288	20	16	372	85	[illegible]
24	344	--	--	288	16	12	305	50	41
25	309	--	--	349	38	36	280	44	33
26	430	--	--	305	26	21	260	35	25
27	376	--	--	309	34	28	241	25	16
28	430	--	--	793	500	1070	280	50	38
29	363	--	--	2260	700	4270	2990	910	8350
30	331	--	--	1060	105	301	938	165	418
31	--	--	--	1220	575	1890	--	--	--
TOTAL	18266	--	--	13128	--	7774	16475	--	21765

01470960 TULPEHOCKEN CREEK AT BLUE MARSH DAMSITE NEAR READING, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	625	56	95	173	35	16	144	30	12
2	504	45	61	252	55	37	119	22	7.1
3	595	190	305	177	23	11	122	18	5.9
4	859	500	1160	160	20	8.6	116	20	6.3
5	532	200	287	150	18	7.3	110	25	7.4
6	425	45	52	144	20	7.8	105	12	3.4
7	372	30	30	138	13	4.8	119	8	2.6
8	340	15	14	135	10	3.6	105	8	2.3
9	314	14	12	132	12	4.3	94	6	1.5
10	296	17	14	157	75	32	94	6	1.5
11	284	12	9.2	607	200	328	91	4	.98
12	264	8	5.7	205	35	19	88	5	1.2
13	248	4	2.7	222	55	33	83	9	2.0
14	237	4	2.6	173	30	14	499	400	539
15	234	4	2.5	170	22	10	1290	550	1920
16	234	7	4.4	164	18	8.0	381	40	41
17	219	9	5.3	154	17	7.1	292	24	19
18	215	10	5.8	144	10	3.9	349	90	85
19	205	9	5.0	144	10	3.9	280	35	26
20	201	10	5.4	141	9	3.4	230	20	12
21	268	35	25	138	9	3.4	208	30	17
22	219	15	8.9	132	8	2.9	194	23	12
23	201	15	8.1	122	7	2.3	212	20	11
24	190	10	5.1	119	6	1.9	177	11	5.3
25	177	6	2.9	116	5	1.6	160	6	2.6
26	180	5	2.4	110	7	2.1	157	8	3.4
27	205	14	7.7	108	16	4.7	154	6	2.5
28	170	8	3.7	108	11	3.2	147	4	1.6
29	160	12	5.2	105	8	2.3	184	12	6.0
30	157	16	6.8	105	6	1.7	170	6	2.8
31	150	17	6.9	108	70	20	--	--	--
TOTAL	9280	--	2161.3	5013	--	608.8	6474	--	2760.38

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 141681
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 35069.48

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.					
17...	1300	79	12	90	99

01473000 PERKIOMEN CREEK AT GRATERFORD, PA.

LOCATION.--Lat 40°13'46", long 75°27'07", Montgomery County, on left bank 1,650 ft (503 m) upstream from highway bridge at Graterford, 0.5 mile (0.8 km) upstream from Landis Brook, and 2.5 miles (4.0 km) north of Collegeville.

DRAINAGE AREA.--279 mi^2 (723 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973 (discontinued).
Sediment records: October 1964 to May 1966, January 1971 to September 1973 (discontinued).

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 600 mg/l Nov. 8; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 9,710 tons (8,800 t) June 29; minimum daily, 0.15 tons (0.14 t) Oct. 1, 4-5.

Period of record:
Sediment concentrations: Maximum daily, 600 mg/l Nov. 8, 1972; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 28,000 tons (25,400 t) June 22, 1972; minimum daily, less than 0.05 tons (0.04 t) on many days.

REMARKS.--Chemical analyses for this station on page 146. Unpublished records of specific conductance, pH, and temperature of sediment samples available in the WRD office at Harrisburg, Pa.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	57	1	.15	82	1	.22	1540	75	312
2	57	2	.31	84	1	.23	1040	20	56
3	55	2	.30	106	3	.86	658	5	8.9
4	57	1	.15	93	1	.25	498	2	2.7
5	57	1	.15	93	2	.50	422	4	4.6
6	62	30	5.0	101	3	.82	1080	80	233
7	183	20	9.9	88	2	.48	2270	50	306
8	162	5	2.2	3340	600	5410	1370	55	203
9	86	3	.70	5880	190	3020	3420	80	739
10	73	2	.39	884	50	119	1850	30	150
11	66	1	.18	436	20	24	1210	10	33
12	64	1	.17	316	10	8.5	717	7	14
13	64	1	.17	246	4	2.7	699	8	15
14	64	1	.17	8080	300	6540	561	4	6.1
15	62	2	.33	2940	65	516	990	55	147
16	60	2	.32	880	10	24	2280	48	295
17	60	1	.16	547	9	13	699	14	26
18	60	1	.16	410	8	8.9	452	10	12
19	70	1	.19	350	22	21	410	10	11
20	77	1	.21	4140	135	1730	498	9	12
21	79	1	.21	1060	35	100	610	20	33
22	72	2	.39	575	10	16	3820	220	2270
23	66	1	.18	428	7	8.1	1660	18	81
24	60	1	.16	340	6	5.5	1000	10	27
25	62	1	.17	300	20	16	744	8	16
26	62	1	.17	1410	55	209	626	8	14
27	68	1	.18	920	10	25	726	10	20
28	98	5	1.3	512	7	9.7	540	8	12
29	259	18	13	422	10	11	410	7	7.7
30	115	4	1.2	398	25	27	362	6	5.9
31	93	2	.50	--	--	--	699	22	42
TOTAL	2530	--	38.77	35461	--	17867.76	33861	--	5114.9

01473000 PERKIOMEN CREEK AT GRATERFORD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	980	32	85	428	5	5.8	177	2	.96
2	575	14	22	4200	350	7500	177	4	1.9
3	428	8	9.2	4090	150	1660	205	1	.55
4	1480	40	160	1310	20	71	526	20	28
5	1060	13	37	834	11	25	554	14	21
6	618	6	10	642	10	17	477	8	10
7	392	5	5.3	658	18	32	470	6	7.6
8	360	4	3.9	789	28	60	852	26	60
9	330	4	3.6	1210	37	121	735	19	38
10	300	3	2.4	526	10	14	484	9	12
11	270	3	2.2	392	10	11	410	7	7.7
12	250	4	2.7	362	8	7.8	458	8	9.9
13	230	6	3.7	345	8	7.5	392	6	6.4
14	200	5	2.7	279	6	4.5	320	6	5.2
15	193	5	2.6	726	18	35	374	11	11
16	189	4	2.0	626	12	20	386	12	13
17	193	4	2.1	345	6	5.6	1150	70	217
18	193	3	1.6	374	3	3.0	880	75	178
19	214	6	3.5	335	2	1.8	512	25	35
20	423	14	16	250	3	2.0	386	15	16
21	265	7	5.0	255	5	3.4	310	10	8.4
22	290	10	7.8	260	4	2.8	285	8	6.2
23	1010	48	131	241	4	2.6	255	6	4.1
24	561	24	36	219	4	2.4	223	5	3.0
25	386	8	8.3	193	3	1.6	214	3	1.7
26	320	5	4.3	193	4	2.1	2170	196	1450
27	1290	243	1850	193	4	2.1	1000	64	173
28	2390	180	1450	181	3	1.5	533	21	30
29	5160	266	4460	--	--	--	410	9	10
30	1130	20	61	--	--	--	398	15	16
31	610	13	21	--	--	--	434	12	14
TOTAL	22290	--	8411.9	20456	--	9622.5	16157	--	2395.61

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1270	115	730	398	9	9.7	434	65	76
2	5360	152	2290	356	8	7.7	368	50	50
3	1740	40	188	362	16	16	315	48	41
4	2520	143	1820	484	38	50	290	40	31
5	2180	80	471	374	22	22	398	80	86
6	950	22	56	315	11	9.4	290	30	23
7	682	28	52	270	10	7.3	290	29	23
8	2080	95	534	232	8	5.0	275	27	20
9	1480	68	272	498	20	27	210	25	14
10	2590	196	1560	512	22	30	189	20	10
11	1230	40	133	362	20	20	158	15	6.4
12	744	24	48	280	18	14	561	132	1500
13	596	20	32	250	15	10	1130	450	1680
14	477	15	19	237	16	10	300	100	81
15	416	12	13	214	19	11	189	25	13
16	374	10	10	260	18	13	158	35	15
17	345	6	5.6	237	15	9.6	162	30	13
18	340	6	5.5	446	25	30	145	80	31
19	325	5	4.4	310	14	12	148	110	44
20	290	5	3.9	260	7	4.9	151	100	41
21	255	6	4.1	452	11	13	148	80	32
22	246	5	3.3	428	15	17	300	110	89
23	265	7	5.0	305	12	9.9	270	70	51
24	392	19	20	398	14	15	265	85	61
25	305	14	12	491	16	21	270	95	69
26	1160	60	188	568	18	28	177	25	12
27	880	34	81	428	20	23	151	20	8.2
28	1480	36	144	3660	242	2900	162	80	35
29	762	12	25	1950	130	684	5320	548	9710
30	477	10	13	843	80	182	2350	140	888
31	--	--	--	596	65	105	--	--	--
TOTAL	32211	--	8742.8	16776	--	4316.5	15574	--	14753.6

01473000 PERKIOMEN CREEK AT GRATERFORD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY MEAN DISCHARGE (CFS)	JULY MEAN CONCEN-TRATION (MG/L)	JULY SEDIMENT DISCHARGE (TONS/DAY)	AUGUST MEAN DISCHARGE (CFS)	AUGUST MEAN CONCEN-TRATION (MG/L)	AUGUST SEDIMENT DISCHARGE (TONS/DAY)	SEPTEMBER MEAN DISCHARGE (CFS)	SEPTEMBER MEAN CONCEN-TRATION (MG/L)	SEPTEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	650	90	158	76	18	3.7	61	11	1.8
2	392	75	79	2460	400	2660	59	12	1.9
3	335	110	99	561	120	182	57	11	1.7
4	1580	300	1280	223	25	15	57	11	1.7
5	807	150	327	148	20	8.0	74	14	2.8
6	428	85	98	114	5	1.5	65	17	3.0
7	285	190	146	97	10	2.6	65	16	2.8
8	223	150	90	90	15	3.6	65	13	2.3
9	193	40	21	83	15	3.4	63	15	2.6
10	177	40	19	78	12	2.5	61	16	2.6
11	162	120	52	76	15	3.1	57	16	2.5
12	169	90	41	74	15	3.0	55	14	2.1
13	138	20	7.5	74	15	3.0	54	12	1.7
14	128	19	6.6	72	13	2.5	88	18	4.3
15	151	14	5.7	72	12	2.3	674	65	118
16	181	22	11	74	13	2.6	169	34	16
17	138	19	7.1	72	12	2.3	95	22	5.6
18	117	17	5.4	70	10	1.9	102	25	6.9
19	102	14	3.9	70	12	2.3	131	20	7.1
20	95	11	2.8	100	15	4.1	95	19	4.9
21	128	20	6.9	80	10	2.2	76	18	3.7
22	141	18	6.9	74	9	1.8	68	22	4.0
23	117	16	5.1	61	7	1.2	70	20	3.8
24	100	15	4.1	57	11	1.7	74	19	3.8
25	85	15	3.4	55	12	1.8	72	17	3.3
26	74	12	2.4	54	10	1.5	65	15	2.6
27	80	10	2.2	54	10	1.5	63	20	3.4
28	83	11	2.5	52	9	1.3	68	20	3.7
29	78	14	2.9	54	8	1.2	111	32	9.6
30	76	15	3.1	54	8	1.2	138	37	14
31	74	10	2.0	59	10	1.6	--	--	--
TOTAL	7487	--	2501.5	5338	--	2926.4	2952	--	244.2

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 211093

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 76936.44

01473120 SKIPPACK CREEK NEAR COLLEGEVILLE, PA.

LOCATION.--Lat 40°09'52", long 75°26'01", Montgomery County, at gaging station on right bank 60 ft (18 m) downstream from two-span highway bridge, 1.5 miles (2.4 km) upstream from mouth, and 2 miles (3.2 km) southwest of Collegeville.

DRAINAGE AREA.--53.7 mi^2 (86.4 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1969 to September 1971, October 1971 to September 1972 (partial-record station), October 1972 to June 1973 (discontinued).
Sediment records: October 1970 to September 1971 (partial-record station), October 1971 to June 1973 (discontinued).

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 1,150 mg/l Feb. 2; minimum daily, 2 mg/l on many days.
Sediment discharges: Maximum daily, 9,890 tons (8,970 t) Feb. 2; minimum daily, 0 tons (0 t) Apr. 9.

Period of record:
Sediment concentrations: Maximum daily, 1,150 mg/l Feb. 2, 1973; minimum daily, 1 mg/l on many days during November 1971, March and April 1972.
Sediment discharges: Maximum daily, 9,890 tons (8,970 t) Feb. 2, 1973; minimum daily, 0 tons (0 t) Apr. 9, 1973.

REMARKS.--Chemical analyses for this station on page 147.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.3	10	.22	6.4	4	.07	388	40	42
2	4.5	7	.09	9.0	2	.05	143	9	3.5
3	3.6	7	.07	9.9	3	.08	108	8	2.3
4	3.3	6	.05	7.5	3	.06	92	9	2.2
5	3.0	5	.04	17	5	.23	82	10	2.2
6	3.3	10	.09	11	3	.09	281	75	57
7	102	32	11	8.3	2	.04	200	40	22
8	22	4	.24	1090	486	2040	375	150	152
9	6.4	3	.05	708	145	277	450	52	63
10	5.4	3	.04	135	14	5.1	339	90	82
11	4.8	2	.03	93	7	1.8	156	12	5.1
12	4.5	3	.04	74	3	.60	99	8	2.1
13	4.8	2	.03	62	2	.33	98	5	1.3
14	4.8	2	.03	1870	280	2820	71	4	.77
15	4.2	3	.03	295	25	20	249	40	55
16	3.9	3	.03	138	10	3.7	281	37	28
17	4.5	3	.04	107	4	1.2	87	10	2.3
18	4.8	2	.03	88	3	.71	67	6	1.1
19	6.4	5	.09	99	14	7.1	50	6	.81
20	17	6	.28	855	148	646	64	10	1.7
21	6.8	2	.04	158	10	4.3	66	15	2.7
22	5.8	2	.03	111	5	1.5	722	244	723
23	5.4	2	.03	92	4	.99	198	20	11
24	5.4	3	.04	80	3	.65	129	10	3.5
25	5.4	3	.04	76	2	.41	99	4	1.1
26	5.4	2	.03	359	93	144	82	4	.89
27	5.4	4	.06	137	13	4.8	82	5	1.1
28	67	22	4.0	101	5	1.4	60	4	.65
29	52	34	4.8	87	4	.94	44	3	.36
30	9.9	14	.37	203	50	27	41	3	.33
31	7.1	8	.15	--	--	--	59	8	1.3
TOTAL	397.1	--	22.11	7087.1	--	6010.15	5262	--	1272.31

01473120 SKIPPACK CREEK NEAR COLLEGEVILLE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	62	10	1.7	55	8	1.2	15	3	.12
2	43	5	.58	1170	1150	9890	14	2	.08
3	35	2	.19	505	150	205	17	3	.14
4	221	85	51	128	22	7.6	82	38	8.4
5	102	10	2.8	74	10	2.0	68	15	2.8
6	67	4	.72	54	9	1.3	62	8	1.3
7	48	5	.65	87	20	4.7	63	7	1.2
8	39	4	.42	121	45	15	108	17	5.0
9	43	5	.58	123	25	8.3	85	12	2.8
10	39	4	.42	47	10	1.3	68	10	1.8
11	33	4	.36	38	8	.82	63	8	1.4
12	20	3	.16	40	17	1.8	63	8	1.4
13	15	3	.12	32	15	1.3	54	7	1.0
14	8.3	2	.04	19	9	.46	50	5	.68
15	6.1	2	.03	103	20	5.6	53	4	.57
16	5.8	3	.05	64	3	.52	50	4	.54
17	5.8	3	.05	51	7	.96	194	48	25
18	5.4	2	.03	60	5	.81	99	18	4.8
19	7.1	5	.10	47	2	.25	71	9	1.7
20	52	35	4.9	38	3	.31	62	9	1.5
21	11	15	.45	32	2	.17	54	3	.44
22	88	55	13	29	4	.31	50	5	.68
23	147	120	48	25	3	.20	44	6	.71
24	66	17	3.0	21	2	.11	37	10	1.0
25	43	9	1.0	18	2	.10	34	7	.64
26	37	6	.60	18	3	.15	417	516	1000
27	539	500	728	17	2	.09	136	35	13
28	361	220	214	15	3	.12	79	15	3.2
29	1010	650	1770	--	--	--	66	8	1.4
30	138	30	11	--	--	--	63	5	.85
31	85	8	1.8	--	--	--	57	4	.62
TOTAL	3382.5	--	2855.75	3031	--	10150.48	2378	--	1084.77

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	373	330	332	59	6	.96	68	11	2.0
2	1070	300	867	51	8	1.1	57	8	1.2
3	220	35	21	50	7	.95	52	7	.98
4	578	267	1090	50	8	1.1	54	15	2.2
5	257	45	31	43	5	.58	77	45	9.4
6	119	15	4.8	38	6	.62	50	12	1.6
7	85	10	2.3	33	4	.36	45	8	.97
8	561	280	424	31	4	.33	36	5	.49
9	190	30	0	89	60	14	38	10	1.0
10	701	655	2630	50	15	2.0	20	7	.38
11	160	20	8.6	43	10	1.2	14	5	.19
12	101	10	2.7	36	8	.78	14	5	.19
13	76	6	1.2	32	6	.52	66	450	80
14	60	5	.81	25	7	.47	20	20	1.1
15	51	7	.96	24	5	.32	13	13	.46
16	45	6	.73	25	5	.34	13	20	.70
17	43	10	1.2	24	6	.39	21	14	.79
18	40	7	.76	50	15	2.0	11	11	.33
19	34	7	.64	27	6	.44	11	8	.24
20	31	6	.50	29	11	.86	11	7	.21
21	28	6	.45	47	20	2.5	15	250	10
22	27	8	.58	33	8	.71	85	600	138
23	31	12	1.0	33	10	.89	41	40	4.4
24	47	11	1.4	45	12	1.5	266	800	575
25	32	7	.60	59	22	3.5	77	150	31
26	250	80	54	53	16	2.3	40	--	--
27	117	30	9.5	63	75	13	36	--	--
28	290	120	94	895	502	2280	298	--	--
29	106	15	4.3	450	30	36	2270	--	--
30	72	8	1.6	180	15	7.3	303	--	--
31	--	--	--	80	13	2.8	--	--	--
TOTAL	5795	--	5587.63	2747	--	2379.82	4122	--	862.83

01473120 SKIPPACK CREEK NEAR COLLEGEVILLE, PA.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
NOV. 14...	1225	5820	9.0	770	12100	39	54	70	86	96	99	100
JAN. 23...	0825	145	5.0	150	59	87	94	99	100	--	--	--
FEB. 02...	1755	4900	6.5	3670	48500	46	66	83	95	100	--	--

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.

LOCATION.--Lat 40°01'41", long 75°13'44", Philadelphia County, at Green Lane Avenue Bridge, 5.5 miles (8.8 km) upstream from gaging station at Fairmount Dam, and 14.2 miles (22.3 km) upstream from mouth.

DRAINAGE AREA.--1,830 mi^2 (4,740 km^2), at Fairmount Dam.

PERIOD OF RECORD.--Water temperatures: October 1969 to September 1970.
Sediment records: November 1947 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 822 mg/l June 29; minimum daily, 4 mg/l Mar. 24.
Sediment discharges: Maximum daily, 66,800 tons (60,300 t) June 28; minimum daily, 6.6 tons (6.0 t) Oct. 18.

Period of record:
Sediment concentrations: Maximum daily, 4,910 mg/l Dec. 30, 1948; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 650,000 tons (590,000 t) (estimated) Aug. 19, 1955; minimum daily, less than 0.05 tons (0.04 t) Sept. 2, 1966.

REMARKS.--Streamflow records given are for 01474500 Schuylkill River at Philadelphia (Fairmount Dam). Daily records do not include water diverted by the city of Philadelphia for municipal water supply. Unpublished records of temperature of sediment samples available in the district office at Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	652	11	19	853	10	23	7360	20	397
2	625	11	19	822	11	24	5980	13	210
3	571	11	17	822	11	24	4540	15	184
4	544	11	16	977	12	32	4080	13	143
5	490	11	15	1010	11	30	3850	6	62
6	544	14	21	822	13	29	4480	25	302
7	2030	26	143	760	16	33	11300	165	5030
8	1580	23	98	6870	325	10600	9810	134	3550
9	1010	12	33	22600	725	48800	16400	150	6640
10	706	9	17	8760	180	4260	12200	51	1680
11	625	10	17	5020	40	542	11500	32	994
12	571	8	12	3690	18	179	8760	24	568
13	544	11	16	2910	14	36000	7640	29	598
14	571	10	15	16600	502	22500	6660	26	468
15	544	9	13	20200	290	15800	6450	24	418
16	490	11	15	9320	100	2520	11500	76	2360
17	490	10	13	6170	32	533	7360	32	636
18	490	5	6.6	4720	18	229	5620	18	273
19	733	9	18	3960	27	289	5080	18	247
20	679	8	15	14200	152	6440	4900	12	159
21	652	9	16	8690	65	1530	5380	13	12700
22	625	8	14	5800	21	329	13100	315	11100
23	571	7	11	4660	17	214	11700	100	3160
24	598	6	9.7	3910	17	179	9320	39	981
25	571	8	12	3420	13	120	7710	26	541
26	544	9	13	6310	44	750	6660	13	234
27	517	10	14	8620	58	1350	6310	13	221
28	1140	36	111	5980	26	420	5620	8	121
29	1110	30	90	5020	13	176	4780	7	90
30	791	17	36	4660	13	164	4240	6	69
31	1040	11	31	--	--	--	4420	9	107
TOTAL	22648	--	896.3	188156	--	154119	234710	--	54243

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9950	86	2310	5630	18	274	2010	8	43
2	9110	66	1620	12000	575	18600	2150	7	41
3	6730	23	418	21700	600	35200	2200	12	71
4	8480	47	1080	13600	225	8260	3160	13	111
5	8760	36	851	9820	63	1670	3480	12	113
6	6660	23	414	7860	46	976	3110	10	84
7	5380	15	218	7080	38	726	2960	9	72
8	4540	13	159	6350	28	480	3480	14	132
9	4080	11	121	7670	33	683	4240	12	137
10	3740	8	81	5660	23	351	3630	12	118
11	3480	6	56	4620	20	249	3320	10	90
12	3210	6	52	4040	15	164	3420	9	83
13	2910	6	47	3740	11	111	3320	9	81
14	2810	6	46	3590	12	116	2910	8	63
15	2710	6	44	5000	36	486	2860	9	69
16	2660	7	50	5360	37	535	3010	8	65
17	2570	7	49	4040	23	251	4020	24	260
18	2500	6	41	3180	18	155	5500	27	401
19	2550	10	69	3050	15	124	4900	17	225
20	3210	14	121	2910	9	71	4190	12	136
21	3110	12	101	2820	8	61	3690	10	100
22	2930	25	198	2780	9	68	3370	6	55
23	5860	87	1380	2680	8	58	3060	6	50
24	6310	76	1290	2530	8	55	2710	4	29
25	4640	32	401	2390	7	45	2570	6	42
26	3950	13	139	2260	6	37	6870	140	2600
27	5190	57	1310	2200	7	42	6450	50	871
28	11100	347	10900	2100	8	45	4300	14	163
29	18900	450	23900	--	--	--	3480	10	94
30	10600	315	9020	--	--	--	3260	9	79
31	7060	45	858	--	--	--	3460	9	84
TOTAL	175690	--	57344	156660	--	69893	111090	--	6562

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4580	90	1110	3550	18	173	6240	53	893
2	19000	600	32400	3270	13	115	4940	81	1080
3	13400	210	7600	3290	15	133	4290	42	486
4	11100	140	4200	3620	19	186	3880	31	325
5	15000	190	7700	3230	17	148	4350	63	740
6	10400	67	1880	2840	15	115	3610	51	497
7	8230	28	622	2590	16	112	3010	71	577
8	10400	62	1740	2470	18	120	4800	85	1100
9	11200	108	3270	3510	22	208	3450	126	1170
10	12100	310	10100	3870	17	178	2880	69	537
11	11200	130	3930	3380	18	164	2530	34	232
12	8680	41	961	4490	21	255	2300	35	217
13	7320	22	435	4230	22	251	4970	83	1110
14	6160	19	316	3840	20	207	3060	118	975
15	5360	16	232	3420	18	166	2210	64	382
16	4810	12	156	3290	17	151	1950	57	300
17	4370	10	118	3200	18	156	2010	47	255
18	4100	11	122	3400	20	184	1960	59	312
19	3860	12	125	3120	18	152	1950	52	274
20	3540	10	96	2950	19	151	1930	42	219
21	3240	12	105	3600	21	204	1810	38	186
22	3070	10	83	3620	21	205	4350	84	987
23	3110	13	109	3110	15	126	3380	125	1140
24	3590	14	136	3200	16	138	2930	350	2770
25	3210	16	139	3380	13	119	3510	220	2080
26	6210	34	570	3750	17	172	2250	81	492
27	5480	30	444	3320	15	134	1940	59	309
28	6940	40	750	10200	175	4820	2080	50	66800
29	5210	25	352	11600	185	5790	21400	822	47500
30	4030	15	163	10000	54	1460	24900	600	40300
31	--	--	--	7520	45	914	--	--	--
TOTAL	218900	--	79964	130860	--	17407	134870	--	174245

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8280	180	4020	1240	18	60	702	7	13
2	5550	45	674	14100	318	15600	764	6	12
3	4460	48	578	8010	100	2160	676	7	13
4	9400	338	8580	3120	35	295	723	8	16
5	7400	240	4800	2290	25	155	644	6	10
6	5540	94	1410	1880	21	107	694	10	19
7	4050	58	634	1640	14	62	703	14	27
8	3430	38	352	1450	20	78	671	19	34
9	2960	24	192	1330	15	54	651	18	32
10	2690	23	167	1240	18	60	637	20	34
11	2920	32	252	1470	25	99	635	20	34
12	2670	33	238	3230	35	305	611	13	21
13	2280	18	111	1880	19	96	562	12	18
14	2100	15	85	1780	23	111	1300	38	229
15	2330	13	82	1610	20	87	7650	134	3300
16	2280	12	74	1620	24	105	5800	86	1420
17	1950	12	63	1490	20	80	2900	30	235
18	1750	16	76	1320	20	71	2290	22	136
19	1630	13	57	1270	25	86	2920	24	189
20	1530	11	45	1380	21	78	2580	21	146
21	1990	38	204	1360	21	77	1980	15	80
22	2340	20	126	1250	22	74	1730	15	70
23	1960	17	90	1100	18	53	1720	13	60
24	1630	16	70	1010	24	65	1840	16	79
25	1390	16	60	941	15	38	1630	16	70
26	1310	18	64	919	10	25	1340	15	54
27	1350	15	55	872	9	21	1240	14	47
28	1370	12	44	853	8	18	1170	10	32
29	1240	13	44	756	9	18	1400	17	64
30	1130	14	43	673	7	13	1880	14	71
31	1120	13	39	655	9	16	--	--	--
TOTAL	92030	--	23329	63739	--	20167	50043	--	6565

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1579396
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 664734.3

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV. 09...	0620	30600	11.5	1130	93400	37	51
APR. 02...	1905	21900	13.5	792	46800	40	55

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV. 09...	67	80	90	97	99	100
APR. 02...	71	85	95	99	100	--

01473800 SCHUYLKILL RIVER AT MANAYUNK, PHILADELPHIA, PA.--Continued

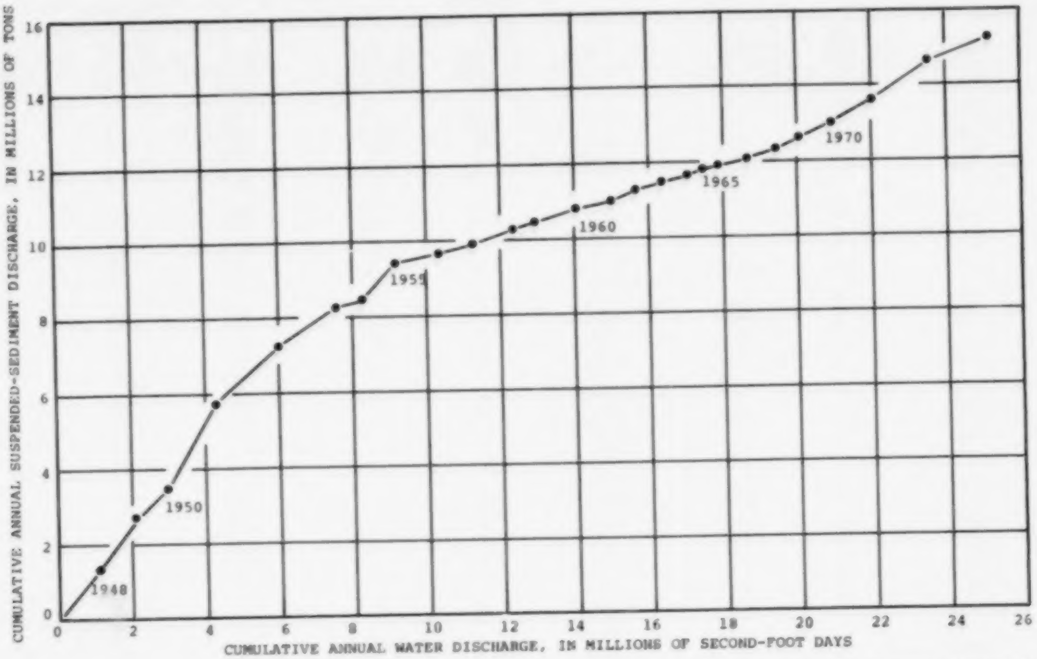

Figure 3.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Schuylkill River at Manayunk, Philadelphia, Pa.

Table 7.--Suspended sediment concentration-duration table, Schuylkill River at Manayunk, Philadelphia

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1973	550	460	240	110	52	31	23	18	15	13	11	9	7	6
1960-73	431	273	122	55	27	20	16	14	12	11	9	7	6	4

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.

LOCATION.--Lat 39°52'09", long 75°35'35", Delaware County, at gaging station located on left bank 27 ft (8 m) upstream from Pennsylvania Railroad Bridge at Chadds Ford, and 1,200 ft (366 m) downstream from highway bridge on U.S. Highway 1. Sediment samples collected at U.S. Highway 1 bridge.

DRAINAGE AREA.--287 mi^2 (743 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1973.
Water temperatures: October 1964 to September 1973.
Sediment records: July 1963 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 1,750 mg/l Nov. 15; minimum daily, 3 mg/l Mar. 23-25.
Sediment discharges: Maximum daily, 13,400 tons (12,200 t) June 29; minimum daily, 2.1 tons (1.9 t) Oct. 27.

Period of record:
Sediment concentrations: Maximum daily, 2,000 mg/l (estimated) Feb. 8, 1965; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 20,000 tons (18,100 t) (estimated) Feb. 8, 1965; minimum daily, 0 tons (0 t) on Oct. 7, 8, 1967.

REMARKS.--Chemical analyses for this station on page 179. Unpublished records of specific conductance, pH, and temperature of sediment samples available in the district office at Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	173	8	3.7	181	8	3.9	845	55	125
2	151	7	2.9	186	8	4.0	705	16	30
3	140	7	2.6	181	9	4.4	611	14	23
4	136	9	3.3	173	8	3.7	480	10	13
5	147	12	4.8	169	6	2.7	350	8	7.6
6	186	28	14	162	7	3.1	625	500	844
7	685	45	83	151	9	3.7	985	610	1620
8	296	9	7.2	1310	640	2260	755	165	336
9	198	10	5.3	955	725	1870	2100	1500	8510
10	155	8	3.3	395	40	43	1120	100	302
11	147	8	3.2	404	28	31	920	25	62
12	151	7	2.9	332	16	14	765	12	25
13	147	7	2.8	242	20	13	755	9	18
14	143	7	2.7	2740	1310	9690	675	8	15
15	140	6	2.3	2280	1750	10800	910	42	103
16	136	7	2.6	670	35	63	1410	100	381
17	136	6	2.2	503	26	35	715	20	39
18	133	6	2.2	391	8	8.4	625	12	20
19	238	10	6.4	332	20	18	598	10	16
20	278	8	6.0	1900	263	1350	645	7	12
21	181	5	2.4	569	43	68	660	26	46
22	173	6	2.8	386	10	10	1710	140	646
23	166	6	2.7	332	7	6.3	1100	64	190
24	166	7	3.1	296	6	4.8	865	22	51
25	158	8	3.4	283	5	3.8	765	13	27
26	158	8	3.4	1070	68	196	720	12	23
27	155	5	2.1	598	42	68	735	10	20
28	355	27	26	373	21	21	645	5	8.7
29	494	42	56	364	8	7.9	580	5	7.8
30	238	18	12	422	22	25	575	4	6.2
31	194	8	4.2	--	--	--	685	15	28
TOTAL	6354	--	281.5	18370	--	26631.7	25634	--	13555.3

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	740	20	40	705	14	27	494	7	9.3
2	589	16	25	2170	465	2720	499	8	11
3	530	16	23	2140	270	1560	571	10	15
4	1060	65	186	1130	65	198	840	24	54
5	810	26	57	965	39	102	665	14	25
6	635	10	17	890	30	72	602	11	18
7	517	7	9.8	970	23	60	580	8	13
8	495	6	8.0	925	19	47	700	14	26
9	476	7	9.0	1050	34	96	660	16	29
10	463	7	8.8	770	13	27	553	11	16
11	476	7	9.0	680	4	7.3	526	11	16
12	458	7	8.7	619	6	10	548	14	21
13	463	6	7.5	607	7	11	503	13	18
14	431	5	5.8	620	10	17	476	11	14
15	445	5	6.0	1180	61	194	481	8	10
16	449	5	6.1	845	24	55	481	9	12
17	449	5	6.1	635	10	17	760	22	45
18	436	5	5.9	602	9	15	700	23	43
19	476	9	12	571	8	12	513	11	15
20	598	15	24	575	8	12	473	7	8.9
21	467	7	8.8	584	7	11	454	7	8.6
22	635	42	72	593	6	9.6	444	6	7.2
23	955	137	353	571	6	9.3	429	3	3.5
24	607	66	108	544	6	8.8	415	3	3.4
25	512	15	21	526	6	8.5	416	3	3.4
26	467	9	11	526	6	8.5	1250	187	631
27	805	315	685	521	6	8.4	747	27	54
28	1180	200	637	503	6	8.1	542	12	18
29	2500	480	3240	--	--	--	494	11	15
30	1060	100	286	--	--	--	528	9	13
31	790	28	60	--	--	--	546	8	12
TOTAL	20974	--	5956.5	23017	--	5331.5	17890	--	1188.3

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1020	145	399	687	18	33	634	36	62
2	3010	525	4270	655	18	32	568	24	37
3	1320	119	424	692	21	39	537	21	30
4	1410	140	533	724	22	43	539	23	33
5	1470	155	615	635	18	31	617	35	58
6	939	39	99	592	17	27	504	26	35
7	819	29	64	555	16	24	527	34	48
8	1640	155	686	540	21	31	475	37	47
9	1310	73	258	995	47	126	449	30	36
10	1500	93	377	696	41	77	418	28	32
11	1090	50	147	590	18	29	398	27	29
12	909	28	69	537	21	30	391	28	30
13	839	16	36	518	23	32	494	39	52
14	786	10	21	492	17	23	408	31	34
15	749	15	30	493	18	24	366	30	30
16	670	10	18	509	17	23	403	32	35
17	714	14	27	488	15	20	526	58	82
18	718	15	29	546	21	31	402	37	40
19	664	11	20	477	17	22	398	37	40
20	629	13	22	580	30	47	402	35	38
21	602	14	23	680	45	83	382	30	31
22	594	12	19	509	20	27	480	42	54
23	643	22	38	506	27	37	451	54	66
24	830	40	90	615	32	53	616	250	416
25	632	21	36	800	38	82	921	400	995
26	1700	215	987	661	21	37	495	83	111
27	1190	90	289	672	37	67	411	82	91
28	1290	88	307	2580	545	3800	1050	235	666
29	877	48	114	1320	139	495	3700	1340	13400
30	737	30	60	841	33	75	4070	450	4950
31	--	--	--	725	39	76	--	--	--
TOTAL	31301	--	10107	21910	--	5576	22032	--	21608

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	985	110	293	330	50	45	172	25	12
2	775	100	209	1550	500	2090	183	32	16
3	715	125	241	545	82	121	210	37	21
4	2470	610	4070	370	31	31	206	21	12
5	1300	360	1260	320	23	20	187	24	12
6	750	160	324	297	27	22	179	16	7.7
7	560	41	62	283	24	18	183	20	9.9
8	500	34	46	274	20	15	172	20	9.3
9	465	25	31	265	18	13	161	20	8.7
10	440	26	31	260	18	13	157	19	8.1
11	535	38	55	256	17	12	161	16	7.0
12	505	63	86	260	16	11	154	16	6.7
13	420	27	31	256	24	17	150	24	9.7
14	400	23	25	243	23	15	278	48	36
15	475	32	41	256	22	15	770	138	287
16	500	40	54	278	11	8.3	283	34	26
17	405	33	36	252	11	7.5	214	20	12
18	385	33	34	230	12	7.5	218	31	18
19	365	33	33	238	11	7.1	230	36	22
20	350	21	20	243	11	7.2	194	26	14
21	375	15	15	252	15	10	183	26	13
22	405	18	20	238	19	12	179	24	12
23	365	18	18	222	20	12	202	26	14
24	335	18	16	214	15	8.7	198	26	14
25	316	18	15	202	17	9.3	172	26	12
26	316	15	13	206	16	8.9	172	28	13
27	316	10	8.5	202	14	7.6	172	23	11
28	302	10	8.2	206	12	6.7	168	17	7.7
29	297	11	8.8	187	12	6.1	172	17	7.9
30	283	11	8.4	176	38	18	202	18	9.8
31	278	11	8.3	179	40	19	--	--	--
TOTAL	16888	--	7121.2	9290	--	2613.9	6282	--	669.5

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 219942
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 100640.4

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JUNE												
29...	1845	4320	1550	18100	45	62	80	91	99	99	99	100

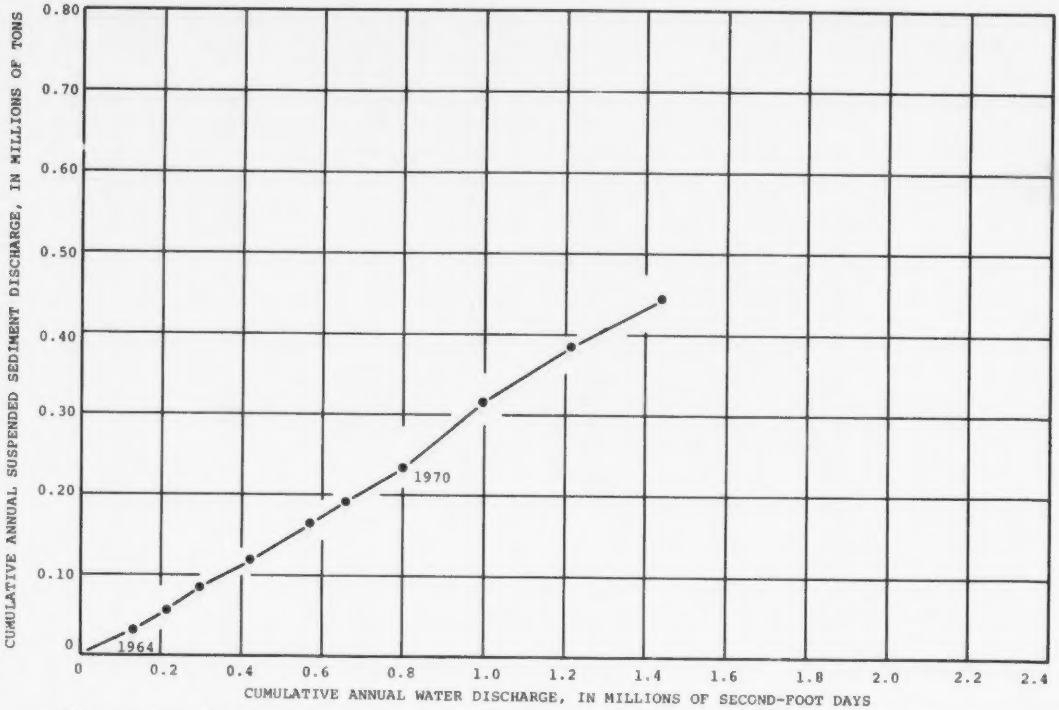

Figure 4.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Brandywine Creek at Chadds Ford, Pa.

Table 8.--Suspended sediment concentration-duration table, Brandywine Creek at Chadds Ford

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1973	1000	610	300	120	42	32	24	20	16	12	9	7	6	4
1964-73	493	294	125	52	27	20	16	13	11	8	7	5	4	2

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, at gaging station on right bank 0.2 mile (0.3 km) downstream from Henry Clay Bridge, in Wilmington, and 4.2 miles (6.8 km) upstream from mouth. Sediment samples are collected at the Henry Clay Bridge.

DRAINAGE AREA.--314 mi^2 (813 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1950, November 1951 to September 1952, October 1956 to September 1972 (discontinued).
Water temperatures: November 1956 to September 1961, October 1970 to September 1973.
Sediment records: December 1946 to September 1961, July 1962 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 1,100 mg/l June 29; minimum daily, 3 mg/l Feb. 28, Mar. 14, 23, 25.
Sediment discharges: Maximum daily, 11,900 tons (10,800 t) June 29; minimum daily, 3.3 tons (3.0 t) Oct. 15, Nov. 5-6.

Period of record:
Sediment concentrations: Maximum daily, 1,700 mg/l Feb. 14, 1966; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 35,700 tons (32,400 t) Feb. 14, 1971; minimum daily, less than 0.50 tons (0.45 t) on many days.

REMARKS.--Chemical analyses for this station on page 186. Streamflow records for water year 1973 available in the Maryland and Delaware State Annual Report, Part 1. Unpublished chemical-quality data and specific conductance, pH, and temperature of sediment samples available in the district office at Parkville, Md.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	192	8	4.1	194	8	4.2	1050	62	176
2	179	8	3.9	195	8	4.2	800	15	32
3	169	8	3.7	182	7	3.4	700	13	25
4	161	8	3.5	179	7	3.4	540	8	12
5	162	8	3.5	176	7	3.3	400	17	18
6	218	8	4.7	174	7	3.3	700	62	117
7	660	62	110	167	20	9.0	1200	220	713
8	376	26	26	1770	228	1090	920	116	288
9	223	18	11	1250	170	574	2670	268	1930
10	177	13	6.2	440	39	46	1400	100	378
11	162	8	3.5	460	16	20	1100	22	65
12	164	8	3.5	360	15	15	900	20	49
13	163	8	3.5	280	11	8.3	880	8	19
14	159	8	3.4	2600	304	2130	800	7	15
15	155	8	3.3	2730	248	1830	980	26	69
16	153	14	5.8	800	110	238	1730	98	458
17	152	15	6.2	620	64	107	840	40	91
18	145	18	7.0	500	13	18	740	10	20
19	236	14	8.9	420	11	12	700	10	19
20	326	12	11	2430	185	1210	740	10	20
21	198	11	5.9	640	60	104	760	9	18
22	183	11	5.4	430	45	52	2060	118	656
23	179	10	4.8	370	25	25	1370	60	222
24	176	8	3.8	330	5	4.5	976	44	116
25	169	8	3.7	310	5	4.2	860	10	23
26	167	8	3.6	1200	32	104	800	7	15
27	164	8	3.5	640	43	74	820	6	13
28	268	17	12	400	10	11	720	6	12
29	471	44	56	380	7	7.2	680	6	11
30	257	20	14	460	15	19	680	4	7.3
31	204	10	5.5	--	--	--	819	8	18
TOTAL	6768	--	350.9	21087	--	7734.0	30335	--	5625.3

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	912	11	27	763	15	31	600	4	6.5
2	733	9	18	2310	200	1250	598	4	6.5
3	648	8	14	2580	317	2210	663	5	9.0
4	1140	42	129	1210	140	457	877	22	52
5	940	14	36	1080	24	70	778	18	38
6	720	7	14	988	17	45	719	11	21
7	600	7	11	1060	18	52	701	6	11
8	580	7	11	1010	16	44	777	12	25
9	560	6	9.1	1140	30	92	778	11	23
10	540	5	7.3	893	12	29	686	11	20
11	540	5	7.3	781	15	32	645	7	12
12	520	7	9.8	717	8	15	673	8	15
13	540	6	8.7	704	8	15	621	8	13
14	500	6	8.1	700	7	13	585	3	4.7
15	520	4	5.6	1200	113	366	583	6	9.4
16	520	5	7.0	939	66	167	586	12	19
17	520	6	8.4	704	31	59	788	22	47
18	500	6	8.1	655	10	18	838	35	79
19	525	6	8.5	643	6	10	629	12	20
20	637	11	19	660	6	11	576	13	20
21	528	6	8.6	700	5	9.5	559	6	9.1
22	620	27	45	710	5	9.6	551	4	6.0
23	1030	140	389	670	6	11	535	3	4.3
24	646	32	56	650	6	11	518	8	11
25	560	9	14	620	5	8.4	522	3	4.2
26	515	8	11	620	5	8.4	1590	116	498
27	837	125	282	626	5	8.5	957	65	168
28	1320	215	766	608	3	4.9	703	46	87
29	2850	513	3950	--	--	--	629	12	20
30	1180	125	398	--	--	--	650	8	14
31	852	35	81	--	--	--	687	7	13
TOTAL	23633	--	6367.5	25941	--	5057.3	21602	--	1285.7

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1230	100	332	832	11	25	882	25	60
2	3610	705	6870	795	10	21	821	20	44
3	1500	190	770	842	18	41	801	18	39
4	1600	100	432	887	25	60	800	14	30
5	1700	180	826	781	14	30	863	16	37
6	953	35	90	739	13	26	744	13	26
7	899	24	58	704	12	23	744	15	30
8	1840	56	278	687	12	22	784	20	42
9	1480	82	328	1110	52	156	656	15	27
10	1540	69	287	880	32	76	626	12	20
11	1120	66	200	735	13	26	605	16	26
12	953	25	64	692	13	24	598	21	34
13	899	8	19	673	12	22	728	30	59
14	845	9	21	647	12	21	619	24	40
15	809	10	22	644	12	21	570	20	31
16	744	7	14	657	11	20	656	49	87
17	752	10	20	643	9	16	792	106	227
18	792	12	26	702	14	27	605	70	114
19	736	13	26	636	14	24	605	30	49
20	688	12	22	717	21	41	605	21	34
21	648	10	17	854	32	74	591	24	38
22	640	10	17	671	17	31	760	43	88
23	664	14	25	646	18	31	720	25	49
24	899	32	78	767	23	48	612	16	26
25	696	16	30	892	29	70	1410	370	1410
26	1750	75	354	825	26	58	728	109	214
27	1190	47	151	854	31	71	656	91	161
28	1390	67	251	2370	360	2300	900	31	75
29	987	20	53	1770	168	803	4000	1100	11900
30	884	12	29	1120	46	139	4500	625	7590
31	--	--	--	926	32	80	--	--	--
TOTAL	34438	--	11710	26698	--	4427	28981	--	22607

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN ISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1130	270	824	345	40	37	184	8	4.0
2	971	200	524	1880	305	1550	186	9	4.5
3	1070	170	491	728	82	161	228	31	19
4	2960	500	4000	424	26	30	268	32	23
5	1460	400	1580	364	21	21	202	18	9.8
6	900	99	241	332	21	19	191	11	5.7
7	664	29	52	305	26	21	193	12	6.3
8	589	23	37	295	28	22	178	10	4.8
9	543	20	29	285	28	22	172	13	6.0
10	514	19	26	270	23	17	170	14	6.4
11	620	42	70	265	22	16	168	14	6.4
12	631	56	95	275	20	15	171	15	6.9
13	495	30	40	285	19	15	162	16	7.0
14	470	26	33	290	16	13	344	44	41
15	558	52	78	310	20	17	907	88	216
16	613	76	126	326	21	18	366	35	35
17	479	55	71	295	25	20	266	22	16
18	456	29	36	270	20	15	261	14	9.9
19	436	25	29	285	16	12	279	12	9.0
20	411	23	26	280	14	11	231	12	7.5
21	436	16	19	305	16	13	213	11	6.3
22	477	14	18	280	15	11	200	11	5.9
23	436	20	24	265	17	12	223	10	6.0
24	398	19	20	245	14	9.3	231	11	6.9
25	369	21	21	233	11	6.9	193	11	5.7
26	368	21	21	237	10	6.4	182	11	5.4
27	368	22	22	225	9	5.5	179	10	4.8
28	358	18	17	231	9	5.6	178	10	4.8
29	337	16	15	208	9	5.1	200	10	5.4
30	325	14	12	186	9	4.5	227	10	6.1
31	312	14	12	193	8	4.2	--	--	--
TOTAL	20154	--	8609	10717	--	2135.5	7153	--	501.5

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 257507
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 76410.7

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JAN.												
29...	1330	3430	560	5190	28	44	60	81	93	98	99	100

01481500 BRANDYWINE CREEK AT WILMINGTON, DEL.--Continued

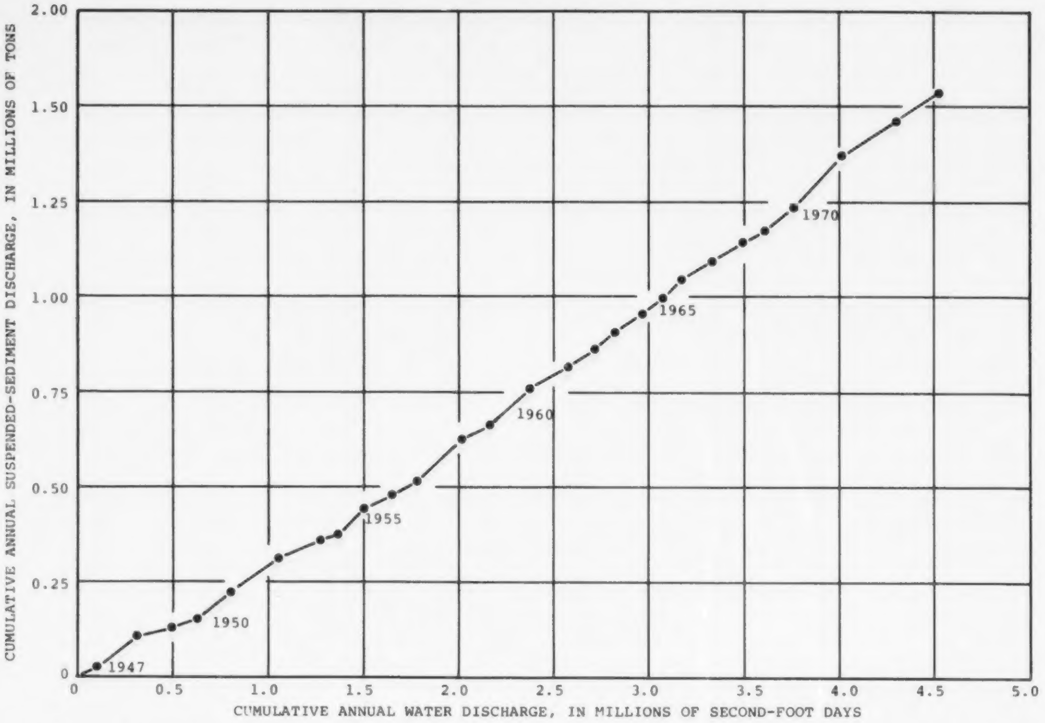

Figure 5.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Brandywine Creek at Wilmington, Del.

Table 9.--Suspended sediment concentration-duration table, Brandywine Creek at Wilmington

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1973	530	340	210	100	43	27	21	16	13	11	9	7	6	4
1947-73*	489	305	129	59	27	19	15	12	10	8	6	5	4	3

*Excludes 1962-63.

DELAWARE RIVER BASIN

01438395 SAWKILL CREEK AT MILFORD, PA. (LAT 41 19 19 LONG 074 48 17)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR.				
07...	0900	45	5	.61
APR.				
05...	0059	540	36	52
MAY				
30...	1745	86	51	12

01438720 RAYMONDSKILL CREEK NEAR SILVER SPRING, PA. (LAT 41 17 40 LONG 074 50 48)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR.				
07...	1020	42	6	.68
APR.				
05...	0040	370	19	19
MAY				
30...	1715	64	5	.86

01438900 DINGMANS CREEK AT DINGMANS FERRY, PA. (LAT 41 13 30 LONG 074 52 49)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR.				
06...	1510	29	1	.08
APR.				
05...	0015	460	35	43
MAY				
30...	1530	36	10	.97

01439500 BUSH KILL AT SHOEMAKERS, PA. (LAT 41 05 17 LONG 075 02 17)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
MAR.				
06...	1200	250	0	.00
APR.				
04...	2215	1140	41	126
05...	1245	1056	6	17
06...	1050	817	4	8.8
MAY				
30...	1350	455	4	4.9

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

DELAWARE RIVER BASIN

01439680 LITTLE BUSH KILL AT BUSHKILL, PA. (LAT 41 05 52 LONG 075 00 15)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
MAR.				
06...	1330	66	1	.10
APR.				
04...	2240	440	9	11
MAY				
30...	1420	117	10	3.2

01451695 JORDAN CREEK NEAR PLEASANT CORNERS, PA. (LAT 40 39 55 LONG 075 41 19)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
AUG.				
23...	0930	2.0	4	.02
SEP.				
20...	0930	7.0	2	.04

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.				
18...	0930	1.7	1	.00
NOV.				
22...	1030	40	5	.54
DEC.				
20...	0940	36	7	.68
JAN.				
17...	0900	12	8	.26
FEB.				
14...	1000	37	4	.40
MAR.				
13...	1545	21	5	.28
APR.				
01...	2400	83	181	41
02...	1710	75	69	14
28...	0945	26	12	.84
MAY				
23...	1010	16	6	.26

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA. (LAT 40 39 34 LONG 075 41 33)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
AUG.				
23...	1030	1.0	3	.01
SEP.				
20...	0845	4.0	2	.02

01451700 SWITZER CREEK NEAR PLEASANT CORNERS, PA. (LAT 40 39 34 LONG 075 11 33)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
18...	0830	5.0	1	.01
NOV.				
22...	0915	46	11	1.4
DEC.				
20...	0930	34	12	1.1
JAN.				
17...	0830	12	8	.26
FEB.				
14...	0930	44	10	1.2
MAR.				
13...	1530	18	8	.40
APR.				
01...	2345	97	349	91
02...	1700	122	164	54
28...	0935	12	9	.29
MAY				
23...	1000	9.0	5	.12

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.				
18...	0830	7	27	88

01451738 LYON CREEK AT LYON VALLEY, PA. (LAT 40 37 30 LONG 075 40 27)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG.				
23...	1345	7.6	13	.27
SEP.				
20...	1330	4.0	2	.02

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
18...	1315	4.0	1	.01
NOV.				
22...	1230	42	9	1.0
DEC.				
20...	1245	31	12	1.0
JAN.				
17...	1300	1.0	88	.24
FEB.				
14...	1400	53	17	2.4
MAR.				
14...	0930	12	4	.13
APR.				
02...	0100	82	494	109
02...	1800	137	313	116
28...	1130	10	45	1.2
MAY				
23...	1300	8.0	36	.78

DELAWARE RIVER BASIN

01451738 LYON CREEK AT LYON VALLEY, PA. (LAT 40 37 30 LONG 075 40 27)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.				
18...	1315	10	82	87

01451770 MILL CREEK NEAR SCHNECKSVILLE, PA. (LAT 40 40 35 LONG 075 38 25)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG.				
23...	1215	1.0	7	.02
SEP.				
20...	1100	1.0	3	.01

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
18...	1030	1.0	1	.00
NOV.				
22...	1045	23	2	.12
DEC.				
20...	1100	16	4	.17
JAN.				
17...	1040	4.0	4	.04
MAR.				
13...	1620	12	6	.19
APR.				
02...	0015	56	172	26
02...	1730	69	96	18
28...	1030	7.3	21	.41

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.				
18...	1030	2	2	38

DELAWARE RIVER BASIN

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA. (LAT 40 39 42 LONG 075 37 38)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG.				
23...	1230	10	6	.22
SEP.				
20...	1110	14	1	.04

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
18...	1130	15	1	.04
NOV.				
22...	1130	222	4	2.4
DEC.				
20...	1115	150	5	2.0
JAN.				
17...	1100	43	4	.46
FEB.				
14...	1230	1.4	10	.04
MAR.				
14...	0900	53	2	.29
APR.				
02...	0040	642	497	861
02...	1740	853	220	507
28...	1100	64	11	1.9
MAY				
23...	1130	38	11	1.1

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.				
18...	1130	14	52	94

01470700 TULPEHOCKEN CREEK AT BERNVILLE, PA. (LAT 40 25 32 LONG 076 06 51)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.				
17...	0915	10	56	85

DELAWARE RIVER BASIN

01470825 NORTHKILL CREEK AT BERNVILLE, PA. (LAT 40 25 50 LONG 076 06 51)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.					
17...	1000	10	7	44	88

01470850 LICKING CREEK NEAR BERNVILLE, PA. (LAT 40 24 34 LONG 076 03 43)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.					
17...	1200	3.6	10	73	95

01470860 SPRING CREEK NEAR BERNVILLE, PA. (LAT 40 23 24 LONG 076 04 40)

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.					
17...	1415	11	7	32	68

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.

LOCATION.--Lat 41°01'53", long 76°25'13", Columbia County, on right bank at upstream end of culvert on State Highway 487 at Light Street.

DRAINAGE AREA.--1.72 mi^2 (4.45 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.
Sediment records: October 1971 to September 1973.

EXTREMES.--1971-72:
Sediment concentrations: Maximum, 10,100 mg/l June 22; minimum, 1 mg/l on several days during October to December.
Sediment discharges: Maximum, 7,010 tons (6,360 t) June 22; minimum, 0 tons (0 t) on many days.
1972-73:
Sediment concentrations: Maximum, 8,810 mg/l Mar. 17; minimum, 2 mg/l Oct. 17-19, 25, 31.
Sediment discharges: Maximum, 220 tons (200 t) June 28; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 10,100 mg/l June 22, 1972; minimum, 1 mg/l on several days during October to December 1971.
Sediment discharges: Maximum, 7,010 tons (6,360 t) June 22, 1972; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 212. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.21	1	0	.33	2	0	2.6	10	.07
2	.21	2	0	.84	50	.11	2.1	10	.06
3	.20	1	0	.45	3	0	1.4	8	.03
4	.18	2	0	.29	2	0	1.0	7	.02
5	.18	4	0	.29	1	0	.90	6	.01
6	.23	8	0	.27	2	0	8.7	300	7.0
7	.20	3	0	.41	12	.01	12	90	2.9
8	.17	1	0	.29	3	0	7.7	40	.83
9	.17	3	0	.27	2	0	6.0	22	.36
10	1.0	130	.35	.27	1	0	5.8	20	.31
11	.49	7	.01	.25	2	0	4.2	9	.10
12	.29	5	0	.25	2	0	2.7	7	.05
13	.25	4	0	.23	4	0	2.2	6	.04
14	.29	3	0	.21	3	0	2.1	20	.11
15	.29	3	0	.51	17	.02	2.3	5	.03
16	.25	3	0	.33	6	.01	1.6	8	.03
17	.25	3	0	.29	4	0	1.3	14	.05
18	.23	2	0	.27	2	0	1.2	9	.03
19	.21	1	0	.31	5	0	1.0	5	.01
20	.18	2	0	.31	4	0	1.1	4	.01
21	.18	1	0	.29	3	0	1.1	2	.01
22	.18	1	0	.25	4	0	.84	4	.01
23	.18	2	0	.23	2	0	.78	3	.01
24	.28	9	.01	.25	8	.01	.90	4	.01
25	.37	30	.03	.52	25	.04	.78	2	0
26	.73	10	.02	.49	5	.01	.84	1	0
27	.33	3	0	.62	7	.01	.78	3	.01
28	.29	2	0	1.2	11	.04	.78	3	.01
29	.27	1	0	5.4	673	9.8	.67	2	0
30	.27	1	0	4.7	30	.38	1.4	25	.09
31	.27	1	0	--	--	--	1.0	8	.02
TOTAL	8.83	--	.42	20.62	--	10.44	77.77	--	12.22

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.78	5	.01	.72	4	.01	7.5	741	15
2	2.0	39	.21	.72	3	.01	13	1970	69
3	1.6	8	.03	1.3	205	.72	16	2960	128
4	1.4	4	.02	1.5	40	.16	3.7	50	.50
5	1.7	9	.04	.72	9	.02	3.1	30	.25
6	1.0	5	.01	.49	6	.01	2.6	22	.15
7	.90	4	.01	.41	5	.01	2.5	25	.17
8	.72	2	0	.33	4	0	2.6	40	.28
9	1.0	6	.02	.31	6	.01	2.4	25	.16
10	1.5	25	.10	.25	3	0	1.5	12	.05
11	2.3	70	.43	.23	5	0	1.3	11	.04
12	2.4	35	.23	.17	6	0	4.3	629	7.3
13	2.5	90	.61	6.4	810	14	2.9	25	.20
14	2.9	60	.47	2.9	84	.66	2.5	20	.14
15	2.0	6	.03	1.6	15	.06	3.5	392	3.7
16	1.4	13	.05	1.3	10	.04	6.3	1700	29
17	1.3	8	.03	.97	7	.02	6.3	159	2.7
18	1.1	4	.01	.90	5	.01	3.5	25	.24
19	1.2	7	.02	.90	20	.05	2.6	20	.14
20	1.0	10	.03	.84	9	.02	2.2	15	.09
21	1.0	5	.01	.84	8	.02	1.8	20	.10
22	.87	4	.01	.67	7	.01	7.8	712	15
23	1.4	14	.05	.62	6	.01	3.7	65	.65
24	2.9	140	1.1	.67	5	.01	2.5	25	.17
25	2.4	88	.57	.67	4	.01	1.9	12	.06
26	1.4	10	.04	1.3	25	.09	1.6	12	.05
27	1.1	6	.02	.97	14	.04	1.6	18	.07
28	1.1	4	.01	1.2	12	.04	1.3	15	.05
29	.90	5	.01	6.2	667	5.3	1.2	13	.04
30	.90	6	.01	--	--	--	1.2	9	.03
31	.72	6	.01	--	--	--	1.1	8	.02
TOTAL	45.45	--	4.20	36.10	--	21.34	115.0	--	273.35

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31				[illegible]	[illegible]	[illegible]			
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.9	5	.03	.48	10	.01	.30	10	.01
2	1.6	4	.02	.48	10	.01	.30	6	0
3	1.9	20	.10	1.9	3700	19	.30	6	0
4	1.3	5	.02	.69	50	.09	.22	5	0
5	2.1	45	.26	.38	10	.01	.22	4	0
6	1.6	8	.03	.38	8	.01	.22	3	0
7	1.3	4	.01	5.5	5250	78	.22	3	0
8	1.1	4	.01	1.3	50	.18	.22	5	0
9	1.3	10	.04	.69	12	.02	.15	7	0
10	1.4	15	.06	.58	9	.01	.15	5	0
11	.90	4	.01	.48	6	.01	.15	3	0
12	.74	4	.01	.58	7	.01	.22	3	0
13	.74	4	.01	.48	4	.01	.38	20	.02
14	.74	5	.01	.38	5	.01	.30	4	0
15	1.1	27	.08	.30	4	0	.30	4	0
16	2.1	476	2.7	.30	4	0	.30	4	0
17	1.6	40	.17	.58	8	.01	.30	4	0
18	.90	30	.07	.38	8	.01	.38	4	0
19	.74	27	.05	.30	5	0	.48	10	.01
20	.60	25	.04	.22	4	0	.48	3	0
21	.60	10	.02	.15	5	0	.48	12	.02
22	.60	7	.01	.15	4	0	.30	5	.01
23	.47	10	.01	.15	3	0	.30	5	0
24	.47	14	.02	.15	3	0	.30	8	.01
25	.74	20	.04	.22	6	0	.30	5	0
26	.47	15	.02	.30	10	.01	.22	2	0
27	.50	10	.01	.38	15	.02	.30	3	0
28	.48	10	.01	.30	7	.01	.25	3	0
29	.38	10	.01	.30	5	0	.20	5	0
30	.38	10	.01	.30	5	0	.24	30	.02
31	.48	10	.01	.38	20	.02	--	--	--
TOTAL	31.23	--	3.90	19.00	--	97.66	8.64	--	.10

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 823.29

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 7708.73

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FEB.							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.						
[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
FEB.						
[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	--

01539200 APPLEMANS RUN ABOVE LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.20	3	0	.14	4	0	1.3	7	.02
2	.17	3	0	.29	15	.01	1.3	6	.02
3	.29	3	0	.33	30	.03	1.4	20	.08
4	.29	3	0	.17	14	.01	1.8	17	.08
5	.17	3	0	.17	18	.01	3.8	60	.62
6	.37	460	.46	.14	8	0	9.8	1130	30
7	.79	136	.29	.14	7	0	4.9	30	.40
8	.20	20	.01	5.3	363	5.2	5.6	231	3.5
9	.17	8	0	1.0	20	.05	8.3	147	3.3
10	.14	3	0	.92	10	.01	7.3	51	1.0
11	.14	3	0	.40	7	.01	4.2	15	.17
12	.14	3	0	.34	5	0	3.4	10	.09
13	.14	3	0	.34	4	0	3.6	15	.15
14	.11	3	0	9.1	448	11	2.5	10	.07
15	.11	3	0	3.7	25	.25	3.6	60	.64
16	.11	4	0	1.6	8	.03	4.7	32	.41
17	.14	2	0	1.1	9	.01	2.1	17	.10
18	.14	2	0	.87	4	.01	1.7	15	.07
19	.17	2	0	1.6	370	1.6	1.8	15	.07
20	.14	5	0	5.5	114	1.7	3.4	30	.29
21	.14	4	0	1.6	7	.03	5.6	304	4.6
22	.17	3	0	1.3	5	.02	14	423	16
23	.20	4	0	1.5	8	.02	6.4	23	.40
24	.20	3	0	.87	12	.03	4.6	20	.25
25	.17	2	0	.73	9	.02	3.7	13	.13
26	.14	3	0	4.7	370	4.7	3.9	194	2.1
27	.14	4	0	1.6	13	.06	3.2	15	.13
28	.24	11	.01	2.1	30	.17	2.2	10	.06
29	.24	3	0	1.5	10	.04	1.6	10	.04
30	.17	4	0	1.2	4	.01	1.6	10	.04
31	.14	2	0	--	--	--	4.0	231	2.5
TOTAL	6.00	--	.77	48.55	--	25.03	127.1	--	67.33

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01539200 APILEMANS RUN ABOVE LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.6	720	7.0	1.1	5	.01	1.1	7	.02
2	3.4	39	.36	.95	5	.01	1.0	8	.02
3	2.2	12	.07	1.4	37	.14	.82	8	.02
4	9.5	2110	54	1.1	6	.02	1.8	514	2.5
5	5.5	56	.83	.88	5	.01	1.2	20	.06
6	3.5	16	.15	.75	5	.01	1.3	370	1.3
7	2.7	13	.09	.69	5	.01	1.6	148	.64
8	5.2	121	1.7	.69	5	.01	.88	12	.03
9	2.8	15	.11	1.1	30	.09	.75	10	.02
10	6.7	608	11	2.0	833	4.5	.63	11	.02
11	3.4	11	.10	1.6	19	.08	.57	10	.02
12	2.7	11	.08	1.2	52	.17	1.4	423	1.6
13	2.0	10	.05	1.1	5	.01	1.3	456	1.6
14	1.8	9	.04	.88	5	.01	.75	17	.03
15	1.5	9	.04	.88	5	.01	.57	15	.02
16	1.3	15	.05	.88	5	.01	.63	13	.02
17	1.2	13	.04	1.1	37	.11	.51	11	.02
18	1.2	12	.04	1.3	9	.03	.75	30	.06
19	1.2	12	.04	.82	3	.01	.57	9	.01
20	1.1	10	.03	2.0	130	.98	.51	9	.01
21	.95	7	.02	2.1	25	.14	.51	20	.03
22	.88	8	.02	1.7	15	.07	.57	15	.02
23	1.9	117	.60	1.4	20	.08	.45	13	.02
24	1.4	10	.04	1.3	6	.02	.39	10	.01
25	1.4	32	.12	1.2	5	.02	.33	8	.01
26	1.9	14	.07	1.0	5	.01	.33	7	.01
27	2.5	170	1.2	1.1	5	.01	.20	6	0
28	2.3	8	.05	3.2	139	1.2	25	3260	220
29	1.5	6	.02	2.2	27	.16	7.5	1300	26
30	1.2	5	.02	1.5	7	.03	6.0	1170	19
31	--	--	--	1.3	6	.02	--	--	--
TOTAL	78.63	--	77.98	41.22	--	7.99	60.80	--	275.12

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

[illegible] [illegible]

[illegible] [illegible]

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.

LOCATION.--Lat 41°01'55", long 76°25'39", Columbia County, on left bank at upstream end of culvert on Papermill Road at Light Street.

DRAINAGE AREA.--1.99 mi^2 (5.15 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.
Sediment records: October 1971 to September 1973.

EXTREMES.--1971-72:
Sediment concentrations: Maximum, 17,400 mg/l May 30; minimum, 2 mg/l Nov. 13, Dec. 29.
Sediment discharges: Maximum, 12,000 tons (10,900 t) June 22; minimum, 0 tons (0 t) on many days.
1972-73:
Sediment concentrations: Maximum, 12,400 mg/l Mar. 17; minimum, 1 mg/l May 6-8.
Sediment discharges: Maximum, 720 tons (653 t) June 28; minimum, 0 tons (0 t) on several days.

Period of record:
Sediment concentrations: Maximum, 17,400 mg/l May 30, 1972; minimum, 1 mg/l May 6-8, 1973.
Sediment discharges: Maximum, 12,000 tons (10,900 t) June 22, 1972; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 214. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	--	--	--	.48	16	.02	3.6	10	.10
2	--	--	--	1.4	290	.95	2.2	9	.05
3	--	--	--	.68	30	.06	1.5	8	.03
4	--	--	--	.49	8	.01	1.2	7	.02
5	--	--	--	.49	10	.01	1.0	12	.03
6	--	--	--	.46	6	.01	12	800	26
7	--	--	--	.66	20	.04	17	327	15
8	--	--	--	.49	5	.01	11	45	1.3
9	--	--	--	.48	16	.02	8.3	35	.78
10	--	--	--	.48	8	.01	7.9	25	.53
11	--	--	--	.46	5	.01	4.8	10	.13
12	--	--	--	.43	3	0	3.7	9	.09
13	--	--	--	.43	2	0	2.6	9	.06
14	--	--	--	.40	4	0	2.5	10	.12
15	--	--	--	.91	195	.48	2.7	11	.08
16	--	--	--	.52	13	.02	1.8	8	.03
17	--	--	--	.60	38	.06	1.5	8	.02
18	--	--	--	.43	8	.01	1.4	5	.02
19	--	--	--	.59	20	.03	1.2	4	.01
20	--	--	--	.46	41	.03	1.3	3	.01
21	--	--	--	[illegible]	11	.01	[illegible]	4	.01
22	[illegible]	[illegible]	[illegible]	[illegible]	15	.02	1.0	6	.01
23	[illegible]	[illegible]	[illegible]	[illegible]	7	.01	[illegible]	8	.02
24	[illegible]	[illegible]	[illegible]	[illegible]	10	.01	[illegible]	5	.01
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.96	5	.01	.79	13	.03	10	1220	33
2	2.3	35	.22	.79	11	.02	15	2770	112
3	1.7	13	.06	1.6	180	.78	19	5300	272
4	1.5	5	.02	1.4	38	.14	4.3	50	.58
5	2.3	17	.11	1.2	25	.08	3.6	25	.24
6	1.3	10	.04	1.0	20	.05	3.0	20	.16
7	1.2	7	.02	.90	10	.02	2.8	25	.19
8	.96	6	.02	.50	30	.04	3.0	40	.32
9	1.2	12	.04	.44	25	.03	2.7	25	.18
10	1.7	15	.07	.36	20	.02	1.7	12	.05
11	2.7	100	.73	.30	20	.02	1.5	15	.06
12	2.8	35	.26	.25	20	.01	5.0	503	6.8
13	2.9	498	3.9	7.5	1380	28	3.4	25	.23
14	3.4	185	1.7	3.4	196	1.8	2.8	18	.14
15	1.9	15	.08	1.3	30	.11	4.0	380	4.1
16	1.5	20	.08	1.3	20	.07	5.7	2470	38
17	1.2	31	.10	1.1	15	.04	7.2	201	3.9
18	1.2	45	.15	1.0	10	.03	4.0	25	.27
19	1.4	20	.08	.99	15	.04	3.0	15	.12
20	1.2	200	.65	.98	20	.05	2.5	14	.09
21	1.2	28	.09	.93	30	.08	2.1	13	.07
22	1.1	10	.03	.90	12	.03	9.1	1340	33
23	1.7	75	.34	.72	10	.02	4.3	50	.58
24	3.4	545	5.0	.75	10	.02	2.8	15	.11
25	2.6	142	1.0	.79	7	.01	2.2	12	.07
26	1.3	15	.05	1.5	50	.20	1.8	10	.05
27	1.1	8	.02	1.1	70	.21	1.6	10	.04
28	1.1	6	.02	1.3	20	.07	1.5	12	.05
29	.96	14	.04	5.9	1440	23	1.4	14	.05
30	.98	15	.04	--	--	--	1.4	12	.05
31	.79	27	.04	--	--	--	1.2	10	.03
TOTAL	51.67	--	15.01	40.99	--	55.02	133.6	--	505.54

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.6	5	.04	.66	25	.04	.24	6	0
2	1.9	5	.03	.66	20	.04	.34	6	.01
3	2.6	35	.25	2.6	3420	24	.34	4	0
4	1.8	6	.03	1.0	100	.27	.29	5	0
5	2.8	70	.53	.52	15	.02	.24	6	0
6	2.2	12	.07	.52	10	.01	.24	5	0
7	1.8	8	.04	7.5	4940	100	.24	5	0
8	1.5	5	.02	1.8	40	.19	.20	5	0
9	1.8	25	.12	.94	15	.04	.20	8	0
10	1.9	20	.10	.80	8	.02	.29	6	0
11	1.2	4	.01	.66	13	.02	.20	8	0
12	1.0	6	.02	.80	20	.04	.39	6	.01
13	1.0	10	.03	.64	11	.02	.73	179	.35
14	1.0	6	.02	.52	7	.01	.39	8	.01
15	1.5	50	.20	.40	5	.01	.29	7	.01
16	2.8	794	6.0	.40	4	0	.29	8	.01
17	2.1	20	.11	.78	14	.03	.29	5	0
18	1.2	16	.05	.60	10	.02	.29	10	.01
19	1.0	14	.04	.51	6	.01	.47	49	.06
20	.82	13	.03	.37	3	0	.29	25	.02
21	.82	15	.03	.31	6	.01	.52	80	.11
22	.82	11	.02	.31	8	.01	.24	35	.02
23	.64	10	.02	.31	9	.01	.17	10	0
24	.64	12	.02	.31	8	.01	.47	90	.11
25	1.0	60	.16	.31	6	.01	.39	8	.01
26	.64	30	.05	.47	39	.05	.24	14	.01
27	.68	10	.02	.59	63	.10	.20	10	.01
28	.66	24	.04	.31	9	.01	.20	10	.01
29	.52	35	.05	.31	30	.03	.20	7	0
30	.52	50	.07	.38	8	.01	.38	106	.11
31	.66	30	.05	.25	5	0	--	--	--
TOTAL	42.12	--	8.27	26.54	--	125.04	9.26	--	.88

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1951.16
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 13779.16

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.												
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.20	7	0	.37	24	.02	2.3	25	.16
2	.16	14	.01	1.0	40	.11	2.1	30	.17
3	.31	10	.01	.92	201	.50	2.3	22	.14
4	.31	8	.01	.37	10	.01	2.8	25	.19
5	.20	6	0	.31	17	.01	5.0	119	1.6
6	.73	101	.20	.20	20	.01	12	1360	44
7	1.8	206	1.0	.20	40	.02	4.6	48	.60
8	.31	8	.01	9.0	823	20	6.3	282	4.8
9	.20	10	.01	2.2	44	.26	9.1	187	4.6
10	.16	16	.01	1.0	14	.04	7.4	85	1.7
11	.17	12	.01	.75	20	.04	3.7	15	.15
12	.20	20	.01	.51	24	.03	3.2	10	.09
13	.20	15	.01	.51	25	.03	3.3	22	.20
14	.20	15	.01	16	532	23	2.5	10	.07
15	.20	13	.01	5.8	50	.78	3.7	130	1.3
16	.20	10	.01	2.6	20	.14	4.4	51	.61
17	.20	20	.01	1.7	13	.06	2.3	15	.09
18	.20	12	.01	1.3	10	.04	2.1	15	.09
19	.44	7	.01	2.6	712	5.0	2.1	15	.09
20	.37	15	.01	7.9	188	4.0	3.2	40	.35
21	.37	20	.02	2.9	15	.12	5.5	539	8.0
22	.67	30	.05	2.3	24	.15	20	1850	100
23	.66	40	.07	1.7	12	.06	5.6	20	.30
24	.51	14	.02	1.5	10	.04	3.7	15	.15
25	.37	12	.01	1.3	6	.02	3.2	10	.09
26	.31	17	.01	6.7	497	9.0	3.4	272	2.5
27	.25	13	.01	2.8	15	.11	2.9	15	.12
28	.91	208	.51	3.3	40	.36	2.4	12	.08
29	.70	30	.06	2.4	14	.09	1.9	13	.07
30	.44	15	.02	2.0	20	.11	1.9	12	.06
31	.44	19	.02	--	--	--	4.2	317	3.6
TOTAL	12.39	--	2.16	82.14	--	64.16	139.1	--	175.97

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.1	60	.50	1.2	15	.05	.65	30	.05
2	2.3	15	.09	13	8550	300	.72	12	.02
3	2.0	10	.05	8.2	150	3.3	1.3	150	.53
4	4.2	317	3.6	5.0	50	.68	1.3	35	.12
5	3.3	10	.09	4.2	20	.23	1.3	10	.04
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

01539210 APPLEMANS RUN BELOW LIGHT STREET, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.7	693	8.8	1.7	4	.02	1.4	4	.02
2	3.2	25	.22	1.7	3	.01	1.3	4	.01
3	2.4	15	.10	2.3	87	.54	1.1	4	.01
4	16	1110	48	1.8	2	.01	2.5	2220	15
5	6.7	39	.71	1.7	1	0	1.6	28	.12
6	4.2	12	.14	1.5	1	0	1.9	994	5.1
7	3.5	9	.09	1.4	1	0	2.1	194	1.1
8	7.0	122	2.3	1.4	1	0	1.1	25	.07
9	3.6	12	.12	2.0	115	.62	1.0	9	.02
10	9.3	597	15	2.9	2300	18	.92	8	.02
11	4.0	10	.11	2.2	20	.12	.85	7	.02
12	3.3	14	.12	1.8	100	.49	1.9	1890	9.7
13	2.7	13	.09	1.5	4	.02	1.9	507	2.6
14	2.4	15	.10	1.3	3	.01	1.0	18	.05
15	2.2	12	.07	1.3	6	.02	.85	16	.04
16	2.0	11	.06	1.2	5	.02	.92	14	.03
17	1.9	11	.06	1.6	44	.19	.85	12	.03
18	1.9	15	.08	1.7	17	.08	1.1	236	.70
19	1.8	13	.06	1.2	4	.01	.85	10	.02
20	1.8	10	.05	3.6	288	2.8	.77	9	.02
21	1.6	8	.03	2.8	45	.34	.77	20	.04
22	1.5	4	.02	2.3	10	.06	.92	17	.04
23	2.7	123	.90	1.9	25	.13	.77	14	.03
24	2.2	10	.06	1.8	10	.05	.70	11	.02
25	2.1	71	.40	1.7	9	.04	.65	9	.02
26	2.7	21	.15	1.4	7	.03	.60	8	.01
27	3.6	298	2.9	1.6	5	.02	.60	7	.01
28	3.0	19	.15	3.9	322	3.4	35	7620	720
29	2.3	5	.03	2.7	40	.29	11	4380	130
30	1.9	4	.02	1.8	6	.03	9.8	4160	110
31	--	--	--	1.7	4	.02	--	--	--
TOTAL	108.2	--	80.94	59.4	--	27.37	86.72	--	996.05

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.0	25	.20	1.2	463	1.5	.65	6	.01
2	1.5	18	.07	1.2	40	.13	.65	6	0
3	2.0	30	.16	.71	25	.05	.51	80	.11
4	1.7	9	.04	.60	12	.02	.46	40	.05
5	5.9	3260	52	.53	20	.03	.45	4	0
6	1.6	9	.04	.53	18	.03	1.7	4160	19
7	1.3	8	.03	.78	332	.70	.44	20	.03
8	1.2	8	.03	.56	40	.06	.45	5	.01
9	1.1	7	.02	.45	20	.02	.45	5	.01
10	.97	5	.01	1.6	1260	6.7	.41	6	.01
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) [illegible]
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) [illegible]

01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA.

LOCATION.--Lat 41°24'06", long 78°01'28", Cameron County, on right bank 350 ft (107 m) downstream from Woodrock Run, 1,500 ft (457 m) upstream from Roaring Run, 0.75 mile (1.2 km) downstream from George B. Stevenson Dam, and 7.5 miles (12 km) northeast of Sinnemahoning.

DRAINAGE AREA.--245 mi^2 (635 km^2).

PERIOD OF RECORD.--Sediment records: October 1971 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 45 mg/l Dec. 8; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 394 tons (356 t) Dec. 8; minimum daily, 0.12 tons (0.11 t) Oct. 24.

Period of record:
Sediment concentrations: Maximum daily, 262 mg/l June 27, 1972; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 3,860 tons (3,500 t) June 27, 1972; minimum daily, 0.12 tons (0.11 t) Oct. 24, 1972.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	73	8	1.6	20	6	.32	231	4	2.5
2	75	10	2.0	50	8	1.1	226	4	2.4
3	73	10	2.0	507	9	12	207	5	2.8
4	64	6	1.0	630	10	17	216	5	2.9
5	40	5	.54	447	8	9.7	226	5	3.1
6	26	6	.42	287	7	5.4	1190	20	64
7	41	6	.66	237	6	3.8	3130	30	254
8	41	7	.77	476	7	9.0	3240	45	394
9	47	7	.89	700	9	17	1750	17	80
10	45	8	.97	596	8	13	1050	12	34
11	43	8	.93	570	6	9.2	970	6	16
12	44	7	.83	484	5	6.5	970	6	16
13	26	7	.49	330	4	3.6	950	5	13
14	22	8	.48	890	9	22	890	4	9.6
15	18	8	.39	2320	18	113	764	4	8.3
16	13	8	.28	1460	15	59	700	5	9.5
17	10	7	.19	870	10	23	554	6	9.0
18	9.8	6	.16	673	6	11	369	6	6.0
19	9.2	7	.17	515	4	5.6	403	6	6.5
20	9.2	8	.20	523	4	5.6	424	6	6.9
21	9.8	7	.19	293	4	3.2	376	5	5.1
22	10	7	.19	343	4	3.7	1000	15	41
23	10	6	.16	231	4	2.5	1780	18	87
24	11	4	.12	197	4	2.1	1610	13	57
25	12	4	.13	187	4	2.0	1450	12	47
26	13	5	.18	231	4	2.5	1220	10	33
27	14	5	.19	265	4	2.9	1090	8	24
28	15	5	.20	231	4	2.5	980	6	16
29	15	4	.16	231	4	2.5	718	5	9.7
30	17	4	.18	231	4	2.5	621	4	6.7
31	18	6	.29	--	--	--	570	4	6.2
TOTAL	874.0	--	16.96	15025	--	373.22	29875	--	1273.2

01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	655	6	11	515	4	5.6	104	3	.84
2	890	9	22	1600	10	43	184	4	2.0
3	755	10	20	4800	12	156	287	5	3.9
4	812	10	22	2360	15	96	780	15	32
5	673	11	20	1360	10	37	1100	12	36
6	523	9	13	900	8	19	1280	5	17
7	403	7	7.6	760	6	12	1100	2	5.9
8	306	5	4.1	638	6	10	1080	3	8.7
9	265	4	2.9	550	5	7.4	1070	4	12
10	293	5	4.0	419	3	3.4	940	4	10
11	265	3	2.1	322	2	1.7	840	4	9.1
12	221	2	1.2	281	1	.76	810	5	11
13	237	3	1.9	271	1	.73	760	2	4.1
14	197	2	1.1	281	1	.76	722	2	3.9
15	192	3	1.6	281	1	.76	1780	8	38
16	211	3	1.7	276	1	.75	2420	12	78
17	182	3	1.5	163	1	.44	2140	10	58
18	157	5	2.1	127	1	.34	2840	12	92
19	165	4	1.8	176	1	.48	2320	18	113
20	192	4	2.1	255	1	.69	1360	15	55
21	133	2	.72	201	1	.54	1020	2	5.5
22	242	2	1.3	151	1	.41	770	1	2.1
23	570	3	4.6	127	1	.34	665	1	1.8
24	343	3	2.8	137	1	.37	567	1	1.5
25	318	4	3.4	127	1	.34	471	1	1.3
26	299	4	3.2	130	2	.70	463	1	1.3
27	299	4	3.2	104	2	.56	478	1	1.3
28	349	4	3.8	87	2	.47	419	1	1.1
29	499	5	6.7	--	--	--	399	1	1.1
30	579	5	7.8	--	--	--	412	1	1.1
31	579	4	6.3	--	--	--	392	1	1.1
TOTAL	11804	--	187.52	17399	--	400.54	29973	--	609.64

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	626	1	1.2	647	3	5.2	611	4	6.6
2	536	2	2.9	542	3	4.4	493	4	5.3
3	675	3	5.5	550	4	5.9	379	4	4.1
4	790	4	8.5	509	4	5.5	567	6	9.2
5	1190	6	19	471	4	5.1	800	6	13
6	1380	10	37	449	3	3.6	820	7	15
7	1130	7	21	399	3	3.2	870	7	16
8	993	4	11	386	4	4.2	790	8	17
9	770	1	2.1	419	4	4.5	675	7	13
10	770	1	2.1	509	4	5.5	470	6	7.7
11	760	1	2.1	990	6	16	441	5	6.0
12	713	1	1.9	1230	7	23	359	4	3.9
13	630	1	1.7	1050	8	23	703	9	17
14	567	1	1.5	880	6	14	593	10	16
15	463	1	1.2	790	4	8.5	352	7	6.7
16	419	2	2.3	630	2	3.4	260	7	4.9
17	392	3	3.2	593	4	6.4	276	7	5.2
18	379	3	3.1	542	4	5.9	244	7	4.6
19	336	3	2.7	478	4	5.2	197	6	3.2
20	298	3	2.4	501	4	5.4	163	5	2.2
21	298	6	4.8	534	5	7.2	167	4	1.8
22	287	7	5.4	547	3	4.4	281	4	3.0
23	306	7	5.7	504	3	4.7	304	4	3.3
24	[illegible]	6	[illegible]	575	2	3.1	244	3	2.0
25	[illegible]	8	[illegible]	553	2	3.0	211	3	1.7
26	[illegible]	7	[illegible]	528	2	2.7	172	5	2.3
27	[illegible]	[illegible]	[illegible]	538	3	4.3	161	5	2.2
28	[illegible]	[illegible]	[illegible]	560	4	6.0	138	3	1.1
29	[illegible]	[illegible]	[illegible]	741	5	10	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	823	5	11	167	5	2.3
31	--	--	--	780	4	8.4	--	--	--
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	137	5	1.8	70	8	1.5	85	4	.92
2	127	5	1.7	107	3	.87	96	4	1.0
3	123	5	1.7	107	4	1.2	99	4	1.1
4	113	6	1.8	80	4	.86	85	4	.92
5	123	6	2.0	77	5	1.0	61	6	.99
6	93	5	1.3	70	5	.95	216	7	4.1
7	75	5	1.0	68	6	1.1	176	7	3.3
8	75	5	1.0	63	5	.85	107	7	2.0
9	70	5	.95	65	6	1.1	90	8	1.9
10	59	6	.96	65	6	1.1	80	9	1.9
11	59	4	.64	65	6	1.1	141	10	3.8
12	56	4	.60	65	6	1.1	172	8	3.7
13	50	6	.81	65	6	1.1	201	6	3.3
14	50	7	.95	65	5	.88	372	7	7.0
15	176	8	3.8	73	7	1.4	225	8	4.9
16	176	8	3.8	110	7	2.1	73	3	.59
17	96	9	2.3	93	8	2.0	61	1	.16
18	75	8	1.6	960	40	195	87	1	.23
19	75	8	1.6	2080	30	168	104	1	.28
20	63	6	1.0	860	15	35	75	1	.20
21	211	8	4.6	647	10	17	65	1	.18
22	188	7	3.6	426	9	10	59	1	.16
23	148	7	2.8	298	8	6.4	93	1	.25
24	116	5	1.6	239	7	4.5	90	1	.24
25	120	7	2.3	211	8	4.6	75	1	.20
26	107	5	1.4	180	8	3.9	70	1	.19
27	99	5	1.3	144	10	3.9	65	1	.18
28	104	6	1.7	120	8	2.6	63	1	.17
29	80	6	1.3	110	7	2.1	68	1	.18
30	77	6	1.2	110	5	1.5	65	1	.18
31	65	7	1.2	93	4	1.0	--	--	--
TOTAL	3186	--	54.31	7786	--	475.71	3319	--	44.22

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 168074.0
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 4839.72

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.

LOCATION.--Lat 41°34'04", long 77°06'06", Tioga County, on left bank at downstream side of bridge on gravel road between U.S. Route 15 and State Highway 414, 0.7 mile (1.1 km) north of Liberty, 100 ft (305 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--1.08 mi^2 (2.80 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: April to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 3,710 mg/l Feb. 2; minimum, 1 mg/l on many days during fall period.
Sediment discharges: Maximum, 351 tons (318 t) Feb. 2; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 3,710 mg/l Feb. 2, 1973; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 351 tons (318 t) Feb. 2, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 234. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.13	1	0	.15	3	0	2.2	4	.02
2	.11	1	0	.57	19	.03	1.9	3	.02
3	.10	1	0	.60	5	.01	1.9	4	.02
4	.09	1	0	.40	4	0	1.9	3	.02
5	.09	1	0	.30	3	0	2.7	7	.05
6	.12	2	0	.20	2	0	14	1010	38
7	.44	17	.02	.15	2	0	7.2	40	.78
8	.23	2	0	3.0	124	1.0	4.8	10	.13
9	.14	1	0	2.0	16	.09	4.9	10	.13
10	.10	1	0	.81	8	.02	4.8	8	.10
11	.09	1	0	.59	4	.01	4.5	6	.07
12	.09	1	0	.47	3	0	4.1	6	.07
13	.10	1	0	.41	5	.01	4.2	6	.07
14	.09	1	0	13	910	32	3.9	6	.06
15	.09	2	0	5.3	30	.43	3.6	5	.05
16	.09	1	0	3.0	10	.08	3.5	5	.05
17	.09	2	0	1.8	6	.03	2.8	5	.04
18	.09	1	0	1.3	3	.01	1.9	5	.03
19	.11	2	0	1.1	40	.12	1.8	5	.02
20	.10	1	0	1.7	50	.23	2.1	6	.03
21	.11	2	0	1.0	3	.01	2.6	10	.07
22	.24	15	.01	.87	3	.01	7.8	456	9.6
23	.27	7	.01	.68	3	.01	6.2	35	.59
24	.20	6	0	.54	2	0	5.0	10	.14
25	.20	5	0	.49	2	0	4.5	8	.10
26	.16	3	0	3.9	100	1.9	4.2	6	.07
27	.14	2	0	3.6	20	.19	3.7	5	.05
28	.15	2	0	3.1	6	.05	3.3	5	.04
29	.25	11	.01	2.5	5	.03	3.0	5	.04
30	.27	6	0	2.2	4	.02	2.5	4	.03
31	.19	6	0	--	--	--	2.0	4	.03
TOTAL	4.67	--	.05	55.73	--	36.29	124.3	--	50.52

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.8	4	.03	.35	8	.01	.64	124	.21
2	2.5	4	.03	35	3710	351	1.5	431	1.7
3	2.2	3	.02	17	60	2.8	4.1	190	2.1
4	2.3	3	.02	7.6	10	.21	3.8	20	.21
5	2.0	3	.02	4.5	5	.06	2.1	11	.06
6	1.3	2	.01	2.8	3	.02	1.8	7	.03
7	.80	2	0	2.0	3	.02	1.6	7	.03
8	.50	2	0	1.5	3	.01	2.0	7	.04
9	.35	2	0	1.5	5	.02	1.7	6	.03
10	.25	2	0	.93	6	.02	1.6	5	.02
11	.20	2	0	.70	8	.02	1.5	5	.02
12	.19	2	0	.50	8	.01	1.5	4	.02
13	.17	2	0	.45	8	.01	1.5	4	.02
14	.25	2	0	.50	9	.01	3.0	473	3.8
15	.29	2	0	.60	8	.01	6.4	148	2.6
16	.32	2	0	.51	5	.01	4.4	47	.56
17	.39	3	0	.46	4	0	33	3510	313
18	.56	4	.01	.40	3	0	11	51	1.5
19	1.1	6	.02	.38	3	0	6.4	15	.26
20	.80	5	.01	.38	2	0	4.8	10	.13
21	.60	4	.01	.37	2	0	3.5	8	.08
22	17	1310	60	.37	2	0	2.7	7	.05
23	3.1	20	.17	.34	3	0	2.2	6	.04
24	.89	10	.02	.32	2	0	2.0	5	.03
25	.50	7	.01	.28	2	0	2.0	6	.03
26	.37	5	0	.27	2	0	2.2	5	.03
27	1.3	48	.17	.26	2	0	1.7	4	.02
28	1.3	10	.04	.28	10	.01	1.4	3	.01
29	.90	10	.02	--	--	--	1.3	3	.01
30	.60	10	.02	--	--	--	1.3	3	.01
31	.45	9	.01	--	--	--	1.3	3	.01
TOTAL	46.28	--	60.64	80.55	--	353.45	115.94	--	327.06

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	--	--	--	[illegible]	[illegible]	[illegible]	--	--	--
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

01549100 BLOCKHOUSE CREEK TRIBUTARY AT LIBERTY, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.48	9	.01	.23	4	0	.57	2	0
2	.42	10	.01	.36	5	0	.46	2	0
3	.44	15	.02	.30	2	0	.42	1	0
4	.46	20	.02	.22	2	0	.36	1	0
5	.45	20	.02	.16	2	0	1.1	569	1.7
6	.38	15	.02	.13	2	0	4.0	144	1.6
7	.31	10	.01	.12	2	0	1.5	6	.02
8	.28	9	.01	.12	2	0	.84	2	0
9	.26	8	.01	.12	2	0	.81	2	0
10	.24	7	0	.12	2	0	.75	2	0
11	.23	7	0	.13	3	0	.58	2	0
12	.22	6	0	.14	3	0	.50	2	0
13	.29	11	.01	.11	3	0	.46	1	0
14	.29	9	.01	.15	3	0	2.0	29	.16
15	.94	32	.08	1.5	264	1.1	2.6	11	.08
16	.66	10	.02	.73	20	.04	1.3	5	.02
17	.38	7	.01	.37	5	0	1.0	4	.01
18	.28	8	.01	10	630	17	3.0	124	1.0
19	.22	7	0	5.3	25	.36	2.1	5	.03
20	.20	9	0	3.3	10	.09	1.6	4	.02
21	1.2	60	.19	2.2	7	.04	1.4	3	.01
22	.63	10	.02	1.6	6	.03	1.6	53	.23
23	.38	6	.01	1.2	5	.02	2.6	17	.12
24	.28	5	0	1.0	4	.01	1.7	7	.03
25	.23	3	0	.85	3	.01	1.4	5	.02
26	.35	139	.13	.81	2	0	1.4	4	.02
27	1.3	134	.47	.79	2	0	1.3	5	.02
28	.56	6	.01	.68	1	0	1.3	4	.01
29	.37	4	0	.53	1	0	1.3	4	.01
30	.27	4	0	.45	1	0	1.1	5	.01
31	.21	3	0	.61	25	.04	--	--	--
TOTAL	13.21	--	1.10	34.33	--	18.74	41.05	--	5.12

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 701.83
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 870.49

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR.										
17...	1040	60	30400	4930	14	25	39	54	67	71

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'43", long 77°09'02", Lycoming County, on left bank 100 ft (305 m) upstream from confluence with Steam Valley Run, near intersection of U.S. Route 15 and State Highway 284.

DRAINAGE AREA.--22.3 mi^2 (57.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: March to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 3,200 mg/l Feb. 2; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 6,300 tons (5,700 t) Feb. 2; minimum, 0 tons (0 t) on several days during October.

Period of record:
Sediment concentrations: Maximum, 3,200 mg/l Feb. 2, 1973; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 6,300 tons (5,700 t) Feb. 2, 1973; minimum, 0 tons (0 t) on several days during October 1972.

REMARKS.--Chemical analyses for this station on page 236. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	1	.01	2.4	1	.01	31	3	.25
2	3.1	1	.01	4.6	2	.02	26	2	.14
3	2.1	1	.01	6.0	1	.02	28	3	.23
4	1.5	1	0	4.0	1	.01	28	2	.15
5	1.5	1	0	3.4	1	.01	47	20	2.5
6	1.6	1	0	2.7	1	.01	349	1490	1400
7	4.7	2	.03	2.4	1	.01	225	25	15
8	4.1	1	.01	70	248	47	151	8	3.3
9	2.9	1	.01	35	15	1.4	148	7	2.8
10	2.1	1	.01	20	3	.16	130	6	2.1
11	1.7	1	0	15	2	.08	92	5	1.2
12	1.6	1	0	12	1	.03	77	5	1.0
13	1.7	1	0	10	1	.03	85	7	1.6
14	1.4	1	0	270	1100	802	66	5	.89
15	1.4	1	0	120	20	6.5	52	5	.70
16	1.4	1	0	60	5	.81	45	4	.49
17	1.2	1	0	40	1	.11	31	4	.33
18	1.1	1	0	30	1	.08	29	4	.31
19	1.6	1	0	23	1	.06	27	4	.29
20	1.6	1	0	30	2	.16	29	4	.31
21	1.9	1	.01	20	1	.05	46	20	2.5
22	3.8	2	.02	18	1	.05	235	945	600
23	3.8	1	.01	15	1	.04	153	7	2.9
24	3.8	1	.01	14	1	.04	127	6	2.1
25	3.2	1	.01	13	1	.04	104	5	1.4
26	2.9	1	.01	93	351	88	101	20	5.5
27	2.2	1	.01	56	5	.76	86	5	1.2
28	1.9	1	.01	46	4	.50	67	4	.72
29	3.0	2	.02	37	4	.40	49	3	.40
30	4.0	2	.02	31	3	.25	42	3	.34
31	2.8	1	.01	--	--	--	64	25	4.3
TOTAL	74.9	--	.23	1103.5	--	948.64	2770	--	2054.95

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	60	4	.65	17	3	.14	11	32	.95
2	52	3	.42	729	3200	6300	25	258	17
3	45	3	.36	353	30	29	50	79	11
4	48	4	.52	157	10	4.2	67	30	5.4
5	42	3	.34	99	5	1.3	54	8	1.2
6	27	3	.22	68	3	.55	53	6	.86
7	20	4	.22	55	2	.30	52	5	.70
8	15	4	.16	54	8	1.2	74	30	6.0
9	12	3	.10	38	3	.31	61	5	.82
10	11	3	.09	25	3	.20	54	3	.44
11	11	3	.09	15	2	.08	50	2	.27
12	10	3	.08	11	2	.06	49	2	.26
13	9.6	3	.08	10	1	.03	44	2	.24
14	9.3	2	.05	11	1	.03	61	120	20
15	9.0	2	.05	12	2	.06	148	490	196
16	9.0	2	.05	11	1	.03	117	30	9.5
17	10	1	.03	10	3	.08	628	2690	4560
18	13	2	.07	9.0	3	.07	247	108	72
19	23	25	1.6	8.0	2	.04	144	20	7.8
20	17	5	.23	8.0	1	.02	98	10	2.6
21	12	3	.10	7.8	1	.02	68	13	2.4
22	221	905	540	7.6	1	.02	54	8	1.2
23	44	7	.83	7.0	3	.06	45	5	.61
24	21	4	.23	6.6	3	.05	39	96	10
25	15	3	.12	6.0	3	.05	37	10	1.0
26	15	2	.08	5.6	1	.02	42	5	.57
27	27	25	1.8	5.4	3	.04	32	55	4.8
28	27	3	.22	5.6	3	.05	26	3	.21
29	20	2	.11	--	--	--	23	2	.12
30	18	2	.10	--	--	--	23	2	.12
31	17	1	.05	--	--	--	22	5	.30
TOTAL	889.9	--	549.05	1751.6	--	6338.01	2498	--	4934.37

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	47	130	16	40	5	.54	44	4	.48
2	58	20	3.1	35	3	.28	37	4	.40
3	46	5	.62	34	2	.18	29	3	.23
4	85	410	94	30	2	.16	42	49	5.6
5	101	20	5.5	25	1	.07	36	26	2.5
6	88	17	4.0	22	1	.06	40	99	11
7	69	6	1.1	19	1	.05	52	41	5.8
8	66	8	1.4	18	1	.05	36	6	.58
9	48	5	.65	22	4	.24	32	4	.35
10	61	35	5.8	31	42	3.5	27	3	.22
11	45	80	9.7	37	10	1.0	22	2	.12
12	40	6	.65	36	5	.49	23	24	1.5
13	36	5	.49	36	3	.29	21	5	.28
14	31	4	.33	31	2	.17	15	3	.12
15	28	3	.23	36	10	.97	13	3	.11
16	25	4	.27	29	2	.16	12	2	.06
17	23	3	.19	39	20	2.1	12	2	.06
18	27	4	.29	39	3	.32	14	2	.08
19	23	2	.12	32	2	.17	12	2	.06
20	21	2	.11	79	206	44	12	1	.03
21	19	2	.10	97	10	2.6	18	28	1.4
22	19	3	.15	82	5	1.1	16	10	.43
23	19	4	.21	66	3	.53	12	3	.10
24	19	3	.15	59	6	.96	11	2	.06
25	18	5	.24	60	8	1.3	10	2	.05
26	20	7	.38	41	2	.22	9.0	3	.07
27	44	252	30	40	2	.22	8.5	2	.05
28	65	32	5.6	76	244	50	9.7	6	.16
29	50	6	.81	75	15	3.0	22	70	4.2
30	44	5	.59	66	10	1.8	11	4	.12
31	--	--	--	55	6	.89	--	--	--
TOTAL	1285	--	182.78	1387	--	117.42	658.2	--	36.22

01549300 BLOCKHOUSE CREEK AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.1	3	.07	5.2	1	.01	11	1	.03
2	8.1	3	.07	7.2	2	.04	9.1	1	.02
3	8.1	4	.09	5.8	2	.03	8.6	1	.02
4	8.7	3	.07	4.8	1	.01	7.6	1	.02
5	7.9	3	.06	3.8	1	.01	7.5	2	.04
6	7.2	2	.04	3.3	1	.01	63	488	83
7	5.7	2	.03	3.0	2	.02	16	7	.30
8	5.1	1	.01	2.9	2	.02	11	3	.09
9	5.2	5	.07	2.8	2	.02	9.8	2	.05
10	5.1	1	.01	2.8	1	.01	8.7	3	.07
11	4.2	1	.01	3.3	1	.01	8.2	1	.02
12	3.5	1	.01	4.2	2	.02	7.7	1	.02
13	4.1	2	.02	3.4	1	.01	6.8	1	.02
14	4.3	2	.02	3.7	2	.02	37	105	10
15	11	13	.39	24	126	8.2	41	22	2.4
16	8.7	12	.28	12	15	.49	17	3	.14
17	5.5	1	.01	7.3	6	.12	14	2	.08
18	4.2	1	.01	401	1570	1700	57	101	16
19	3.4	1	.01	143	30	12	26	3	.21
20	2.9	1	.01	81	29	6.3	21	2	.11
21	15	23	.93	52	10	1.4	18	1	.05
22	8.3	7	.16	37	3	.30	18	12	.58
23	5.8	2	.03	27	2	.15	45	156	19
24	4.5	1	.01	22	2	.12	19	3	.15
25	3.7	1	.01	18	1	.05	16	2	.09
26	4.3	2	.02	16	1	.04	15	2	.08
27	26	78	5.5	14	1	.04	14	2	.08
28	9.6	5	.13	13	1	.04	13	2	.07
29	7.5	2	.04	11	1	.03	13	2	.07
30	6.2	1	.02	9.8	1	.03	11	2	.06
31	5.3	1	.01	10	3	.08	--	--	--
TOTAL	218.2	--	8.15	954.3	--	1729.63	570.0	--	132.87

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 14160.6
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 17032.32

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.

LOCATION.--Lat 41°29'39", long 77°09'03", Lycoming County, on right bank at upstream end of bridge on State Highway 284, 500 ft (152 m) upstream from confluence with Blockhouse Creek.

DRAINAGE AREA.--5.34 mi^2 (13.8 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: February to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 1,000 mg/l Aug. 18; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 189 tons (171 t) Aug. 18; minimum, 0 tons (0 t) on many days.
Period of record:
Sediment concentrations: Maximum, 1,000 mg/l Aug. 18, 1973; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 189 tons (171 t) Aug. 18, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 239. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.70	1	0	.82	1	0	12	2	.06
2	.61	1	0	2.5	2	.01	9.5	1	.03
3	.51	1	0	2.5	1	.01	8.3	1	.02
4	.40	1	0	2.0	1	.01	7.4	1	.02
5	.40	1	0	1.5	1	0	8.7	2	.05
6	.63	1	0	1.1	1	0	56	318	48
7	2.0	2	.01	.80	1	0	62	40	6.7
8	1.3	1	0	20	46	2.5	45	4	.49
9	1.0	1	0	15	3	.12	35	3	.28
10	.72	1	0	7.6	1	.02	29	3	.23
11	.64	1	0	5.2	1	.01	25	2	.14
12	.77	1	0	2.8	1	.01	23	2	.12
13	.70	1	0	1.5	1	0	23	2	.12
14	.67	1	0	50	252	34	19	2	.10
15	.61	1	0	31	5	.42	16	2	.09
16	.56	1	0	23	2	.12	14	2	.08
17	.50	1	0	16	1	.04	12	3	.10
18	.56	1	0	12	1	.03	9.8	3	.08
19	1.0	1	0	9.6	1	.03	8.5	3	.07
20	.88	1	0	11	2	.06	7.9	2	.04
21	.71	1	0	9.0	1	.02	11	3	.09
22	1.3	2	.01	7.0	1	.02	34	30	2.8
23	1.2	1	0	4.8	1	.01	35	8	.76
24	1.0	1	0	4.0	1	.01	32	7	.60
25	.80	1	0	3.7	1	.01	28	6	.45
26	.60	1	0	21	51	2.9	26	6	.42
27	.54	1	0	19	2	.10	24	6	.39
28	.50	2	0	19	2	.10	20	6	.32
29	1.5	1	0	16	2	.09	17	5	.23
30	1.2	1	0	14	2	.08	14	5	.19
31	1.0	1	0	--	--	--	16	5	.22
TOTAL	25.51	--	.02	333.42	--	40.73	688.1	--	63.29

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	16	4	.17	16	2	.09	3.5	5	.05
2	21	5	.28	68	751	138	7.0	60	1.1
3	20	5	.27	95	80	21	15	60	2.4
4	19	4	.21	56	20	3.0	20	13	.70
5	15	4	.16	36	5	.49	17	5	.23
6	13	3	.11	26	3	.21	16	2	.09
7	8.0	3	.06	22	2	.12	16	3	.13
8	6.0	2	.03	15	2	.08	21	11	.62
9	4.5	2	.02	11	1	.03	19	5	.26
10	4.0	2	.02	8.0	2	.04	18	2	.10
11	3.7	2	.02	5.0	2	.03	17	2	.09
12	3.4	1	.01	3.6	2	.02	16	1	.04
13	3.2	1	.01	3.2	2	.02	15	1	.04
14	3.1	1	.01	3.7	1	.01	22	13	.77
15	3.0	1	.01	3.9	1	.01	45	60	7.3
16	3.0	1	.01	3.8	1	.01	37	3	.30
17	3.5	1	.01	3.5	2	.02	85	309	71
18	4.4	1	.01	3.1	2	.02	88	57	14
19	6.2	20	.33	2.7	1	.01	50	10	1.4
20	5.6	2	.03	2.6	1	.01	33	5	.45
21	7.2	25	.49	2.6	2	.01	25	2	.14
22	30	197	16	2.5	1	.01	20	1	.05
23	26	20	1.4	2.4	1	.01	17	1	.05
24	22	9	.53	2.2	1	.01	14	1	.04
25	20	3	.16	2.1	1	.01	13	1	.04
26	18	2	.10	2.0	1	.01	13	1	.04
27	21	20	1.1	1.8	1	0	11	1	.03
28	21	3	.17	1.9	1	.01	9.2	34	.84
29	18	3	.15	--	--	--	8.4	1	.02
30	16	2	.09	--	--	--	8.3	1	.02
31	15	2	.08	--	--	--	7.8	1	.02
TOTAL	379.8	--	22.05	405.6	--	163.29	707.2	--	102.36

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	4	.13	13	1	.04	21	2	.11
2	15	4	.16	12	1	.03	18	2	.10
3	17	3	.14	11	2	.06	15	1	.04
4	28	27	2.0	9.9	1	.03	19	20	1.0
5	35	3	.28	8.6	1	.02	13	5	.18
6	34	3	.28	7.9	1	.02	16	15	.65
7	27	2	.15	7.5	1	.02	18	3	.15
8	24	2	.13	7.5	1	.02	18	2	.10
9	20	2	.11	9.0	5	.12	18	2	.10
10	21	3	.17	11	14	.42	16	1	.04
11	19	2	.10	13	12	.42	13	1	.04
12	17	2	.09	15	3	.12	13	24	.84
13	15	2	.08	16	3	.13	11	2	.06
14	13	1	.04	14	2	.08	8.1	2	.04
15	11	1	.03	15	3	.12	6.7	2	.04
16	11	1	.03	13	1	.04	6.5	3	.05
17	9.9	1	.03	16	3	.13	6.2	2	.03
18	9.9	1	.03	15	2	.08	6.8	2	.04
19	8.6	1	.02	14	1	.04	5.5	2	.03
20	8.1	1	.02	27	15	1.1	4.7	1	.01
21	7.6	1	.02	29	3	.23	6.0	25	.41
22	7.1	1	.02	28	3	.23	5.2	1	.01
23	6.6	1	.02	25	1	.07	4.2	1	.01
24	6.6	1	.02	22	2	.12	4.0	1	.01
25	6.2	2	.03	21	2	.11	3.5	1	.01
26	7.1	3	.06	17	1	.05	3.2	1	.01
27	15	15	.61	17	1	.05	2.9	1	.01
28	20	5	.27	32	25	2.2	4.5	63	.77
29	16	9	.39	27	3	.22	6.6	18	.32
30	14	1	.04	27	3	.22	3.9	1	.01
31	--	--	--	24	2	.13	--	--	--
TOTAL	461.7	--	5.50	524.4	--	6.67	297.5	--	5.22

SUSQUEHANNA RIVER BASIN

01549350 STEAM VALLEY RUN AT BUTTONWOOD, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	1	.01	3.9	2	.02	4.1	1	.01
2	3.0	1	.01	4.7	3	.04	4.1	1	.01
3	3.7	5	.05	3.4	1	.01	3.9	1	.01
4	3.3	1	.01	2.9	1	.01	3.4	1	.01
5	3.0	3	.02	2.4	1	.01	4.8	1	.01
6	2.6	1	.01	2.2	1	.01	8.7	83	1.9
7	2.2	1	.01	2.0	1	.01	3.2	1	.01
8	2.0	1	.01	1.9	1	.01	2.7	1	.01
9	5.9	350	5.6	1.7	1	0	3.0	1	.01
10	3.5	1	.01	1.6	1	0	3.1	1	.01
11	2.4	1	.01	1.9	3	.02	3.1	1	.01
12	2.0	1	.01	2.0	4	.02	3.0	1	.01
13	2.1	1	.01	1.4	2	.01	2.7	1	.01
14	1.8	3	.01	1.9	3	.02	16	12	.52
15	4.6	13	.16	5.6	21	.32	6.5	3	.05
16	3.2	1	.01	2.2	1	.01	2.7	2	.01
17	2.3	1	.01	2.0	1	.01	2.7	2	.01
18	1.9	1	.01	70	1000	189	21	27	1.5
19	1.8	1	0	62	25	4.2	10	5	.14
20	1.7	1	0	52	10	1.4	8.8	3	.07
21	8.3	16	.36	43	4	.46	7.0	3	.06
22	3.6	1	.01	28	3	.23	8.4	20	.45
23	2.8	1	.01	19	2	.10	10	9	.24
24	2.3	1	.01	12	2	.06	5.8	1	.02
25	2.1	1	.01	7.8	1	.02	4.8	1	.01
26	3.1	22	.18	6.2	1	.02	4.4	1	.01
27	12	90	2.9	5.5	1	.01	4.1	1	.01
28	5.1	2	.03	5.5	1	.01	4.1	1	.01
29	4.4	1	.01	5.7	1	.02	4.1	1	.01
30	4.0	1	.01	5.7	1	.02	3.9	1	.01
31	3.7	2	.02	4.1	1	.01	--	--	--
TOTAL	107.7	--	9.52	370.2	--	196.09	173.3	--	5.15

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	4474.43
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	619.89

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.

LOCATION.--Lat 41°28'25", long 77°13'52", Lycoming County, on right bank just downstream from bridge on State Highway 284, 0.7 mile (1.1 km) upstream from Blacks Creek, 1.7 mile (2.7 km) upstream from confluence with Texas Creek, and 5 miles (8 km) northeast of English Center.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: April to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 2,680 mg/l Feb. 2; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 9,480 tons (8,600 t) Feb. 2; minimum, 0.01 tons (0.01 t) on many days.

Period of record:
Sediment concentrations: Maximum, 2,680 mg/l Feb. 2, 1973; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 9,480 tons (8,600 t) Feb. 2, 1973; minimum, 0.01 tons (0.01 t) on many days.

REMARKS.--Chemical analyses for this station on page 242. Unpublished records of pH and specific conductance of instantaneous sediment samples available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.2	1	.02	4.7	1	.01	42	1	.11
2	6.0	1	.02	13	2	.07	36	1	.10
3	4.7	1	.01	16	2	.09	35	1	.09
4	4.1	1	.01	9.8	1	.03	37	1	.10
5	3.8	1	.01	6.8	1	.02	46	3	.37
6	3.8	1	.01	4.7	1	.01	429	414	480
7	8.8	1	.02	3.8	1	.01	311	20	17
8	8.8	1	.02	97	36	9.4	185	10	5.0
9	6.4	1	.02	51	7	.96	171	6	2.8
10	4.7	1	.01	30	2	.16	149	5	2.0
11	3.8	1	.01	24	1	.06	115	4	1.2
12	3.6	1	.01	19	1	.05	99	3	.80
13	3.6	1	.01	16	1	.04	101	5	1.4
14	3.6	1	.01	336	276	250	84	4	.91
15	3.4	1	.01	151	15	6.1	72	3	.58
16	3.4	1	.01	86	5	1.2	60	3	.49
17	3.4	1	.01	61	3	.49	54	3	.44
18	3.4	1	.01	47	2	.25	50	3	.41
19	3.8	1	.01	38	1	.10	47	3	.38
20	3.8	1	.01	49	2	.26	54	3	.44
21	3.8	1	.01	35	1	.09	74	5	1.0
22	6.4	1	.02	30	1	.08	287	232	180
23	8.4	1	.02	26	1	.07	223	15	9.0
24	7.6	1	.02	24	1	.06	179	8	3.9
25	6.4	1	.02	22	1	.06	147	7	2.8
26	5.3	1	.01	94	34	8.6	133	6	2.2
27	4.7	1	.01	74	5	1.0	117	6	1.9
28	4.1	1	.01	59	3	.48	95	6	1.5
29	5.3	1	.01	50	1	.14	77	5	1.0
30	8.4	1	.02	43	1	.12	67	3	.54
31	5.7	1	.02	--	--	--	80	5	1.1
TOTAL	160.2	--	.42	1520.8	--	280.01	3656	--	719.56

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	77	4	.83	58	2	.31	6.3	10	.17
2	74	4	.80	1310	2680	9480	100	37	10
3	123	54	18	1040	196	550	68	20	3.7
4	106	10	2.9	414	25	28	88	7	1.7
5	74	5	1.0	214	10	5.8	75	5	1.0
6	60	4	.65	142	7	2.7	77	5	1.0
7	50	4	.54	68	6	1.1	75	4	.81
8	44	4	.48	54	5	.73	96	6	1.6
9	40	4	.43	48	5	.65	85	2	.46
10	37	4	.40	44	5	.59	79	2	.43
11	34	4	.37	41	4	.44	75	2	.41
12	32	4	.35	39	4	.42	73	1	.20
13	31	4	.33	38	4	.41	65	1	.18
14	30	3	.24	37	5	.50	82	31	6.9
15	34	3	.28	45	7	.85	242	154	101
16	29	3	.23	32	5	.43	166	5	2.2
17	26	3	.21	25	5	.34	1010	1790	4880
18	23	3	.19	20	5	.27	586	74	117
19	21	3	.17	16	5	.22	287	25	19
20	22	3	.18	13	5	.18	186	10	5.0
21	20	3	.16	12	3	.10	136	5	1.8
22	250	178	120	11	2	.06	106	4	1.1
23	140	15	5.7	9.6	2	.05	88	3	.71
24	80	5	1.1	8.8	2	.05	76	2	.41
25	60	4	.65	8.0	2	.04	70	4	.76
26	58	3	.47	7.4	1	.02	80	4	.86
27	86	3	.70	7.0	1	.02	65	3	.53
28	70	2	.38	6.6	1	.02	55	2	.30
29	60	2	.32	--	--	--	50	2	.27
30	58	2	.31	--	--	--	50	2	.27
31	56	2	.30	--	--	--	48	2	.26
TOTAL	1905	--	158.67	3768.4	--	10074.30	4345.3	--	5160.03

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	86	48	11	89	4	.96	110	4	1.2
2	113	25	7.6	79	3	.64	94	3	.76
3	103	5	1.4	77	3	.62	75	2	.41
4	205	138	76	69	2	.37	96	20	5.2
5	235	20	13	60	2	.32	93	15	3.8
6	180	5	2.4	52	2	.28	93	21	5.3
7	141	4	1.5	45	1	.12	132	31	11
8	130	4	1.4	42	1	.11	94	4	1.0
9	104	2	.56	49	2	.26	85	3	.69
10	119	4	1.3	69	11	2.0	73	2	.39
11	101	2	.55	103	8	2.2	60	2	.32
12	89	2	.48	94	2	.51	60	5	.81
13	80	2	.43	94	2	.51	57	5	.77
14	72	2	.39	82	1	.22	42	3	.34
15	64	1	.17	91	3	.74	34	3	.28
16	59	1	.16	79	1	.21	31	4	.33
17	54	1	.15	91	20	4.9	34	4	.37
18	60	2	.32	101	2	.55	34	4	.37
19	52	1	.14	88	1	.24	31	2	.17
20	48	1	.13	186	102	51	27	2	.15
21	42	1	.11	214	15	8.7	34	8	.73
22	39	1	.11	183	6	3.0	39	8	.84
23	40	1	.11	148	3	1.2	26	7	.49
24	42	1	.11	132	3	1.1	23	6	.37
25	36	1	.10	134	3	1.1	21	6	.34
26	45	1	.12	103	2	.56	18	6	.29
27	86	43	10	97	2	.52	17	4	.18
28	138	15	5.6	183	101	50	18	5	.24
29	117	4	1.3	192	14	7.3	45	16	1.9
30	103	4	1.1	166	5	2.2	25	5	.34
31	--	--	--	136	4	1.5	--	--	--
TOTAL	2783	--	137.74	3328	--	143.94	1621	--	39.38

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	4	.21	13	5	.18	17	1	.05
2	17	4	.18	16	10	.43	14	1	.04
3	17	6	.28	15	5	.20	13	1	.04
4	19	5	.26	12	3	.10	11	1	.03
5	16	7	.30	10	3	.08	11	1	.03
6	15	7	.28	9.4	3	.08	83	167	37
7	13	6	.21	8.8	3	.07	28	2	.15
8	11	5	.15	8.5	3	.07	17	1	.05
9	13	8	.28	8.2	3	.07	14	1	.04
10	14	4	.15	7.9	3	.06	12	1	.03
11	11	4	.12	8.8	3	.07	11	1	.03
12	9.7	4	.10	9.7	3	.08	11	1	.03
13	10	4	.11	8.2	3	.07	9.8	1	.03
14	11	4	.12	8.8	8	.19	49	25	3.3
15	20	10	.54	40	49	5.3	74	12	2.4
16	20	5	.27	23	12	.75	32	2	.17
17	13	5	.18	14	3	.11	24	1	.06
18	11	4	.12	567	1600	2450	96	40	10
19	9.4	3	.08	272	15	11	59	2	.32
20	8.8	2	.05	158	20	8.5	46	1	.12
21	34	20	1.8	104	7	2.0	39	1	.11
22	21	3	.17	78	5	1.1	34	1	.09
23	14	2	.08	57	4	.62	81	44	9.6
24	11	2	.06	45	3	.36	44	5	.59
25	10	2	.05	36	2	.19	36	5	.49
26	11	3	.09	30	2	.16	33	4	.36
27	59	50	8.0	26	2	.14	30	3	.24
28	24	7	.45	22	2	.12	28	2	.15
29	18	5	.24	19	1	.05	27	2	.15
30	15	4	.16	16	1	.04	25	2	.14
31	13	5	.18	15	1	.04	--	--	--
TOTAL	507.9	--	15.27	1666.3	--	2482.23	1008.8	--	65.84

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	26270.7
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	14277.39

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.

LOCATION.--Lat 41°04'53", long 76°51'50", Northumberland County, at bridge at Watsontown 100 ft (305 m) upstream from White Deer Creek and 0.8 mile (1.3 km) upstream from Warrior Run.

DRAINAGE AREA.--6,550 mi^2 (17,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 350 mg/l Aug. 19; minimum daily, 2 mg/l on several days during October.
Sediment discharges: Maximum daily, 49,900 tons (45,300 t) Dec. 7; minimum daily, 7.7 tons (7.0 t) Oct. 22.

Period of record:
Sediment concentrations: Maximum daily, 350 mg/l Aug. 19, 1973; minimum daily, 2 mg/l on several days during October 1972.
Sediment discharges: Maximum daily, 49,900 tons (45,300 t) Dec. 7, 1973; minimum daily, 7.7 tons (7.0 t) Oct. 22, 1972.

REMARKS.--Chemical analyses for this station on page 245. Records of discharge are based on records for 01553500 West Branch Susquehanna River at Lewisburg, Pa.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2040	3	17	1810	5	24	14600	10	394
2	2000	2	11	2100	5	28	13100	10	354
3	2660	2	14	2420	5	33	11800	8	255
4	2830	2	15	3130	15	127	11300	7	214
5	2400	2	13	6000	28	454	11500	7	217
6	2240	3	18	5150	7	97	15000	220	8910
7	2350	2	13	4490	7	85	57700	320	49900
8	2120	4	23	7050	14	266	68100	125	23000
9	2000	3	16	16300	150	6600	54600	75	11100
10	2150	3	17	16800	30	1360	46300	25	3130
11	2210	2	12	13700	22	814	37500	23	2330
12	2120	3	17	11200	14	423	31400	16	1360
13	1930	2	10	9650	9	234	28000	15	1130
14	1850	3	15	11800	18	573	25100	11	745
15	1690	3	14	32500	150	13200	22700	13	797
16	1580	4	17	32600	125	11000	21500	14	813
17	1540	2	8.3	25800	68	4740	18400	16	795
18	1420	3	12	20800	31	1740	15700	13	551
19	1410	3	11	16300	14	616	14400	15	583
20	1480	2	8.0	14600	10	394	13400	23	832
21	1440	4	16	13600	11	404	13600	35	1290
22	1420	2	7.7	12300	8	266	24000	40	2590
23	1500	2	8.1	11500	7	217	49800	70	9410
24	1590	3	13	10100	8	218	52900	57	8140
25	1630	3	13	8860	9	215	44900	30	3640
26	1670	4	18	11000	18	535	37700	18	1830
27	1830	3	15	17000	20	918	33000	17	1510
28	1790	3	14	18700	20	1010	27800	15	1130
29	1830	3	15	19000	18	923	22700	12	735
30	1830	2	9.9	16400	14	620	19300	11	573
31	1790	4	19	--	--	--	17400	10	470
TOTAL	58340	--	430.0	392660	--	48134	875200	--	138728

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18500	14	699	14300	21	811	5750	5	78
2	17700	10	478	17900	60	2900	5720	22	340
3	16800	9	408	68800	215	39900	6120	8	132
4	16700	8	361	79500	180	38600	8450	12	274
5	16100	8	348	54000	108	15700	12700	26	892
6	15300	12	496	37600	110	11200	18400	38	1890
7	13500	11	401	28400	43	3300	22300	34	2050
8	10900	9	265	22800	20	1230	22600	29	1770
9	8890	8	192	20600	15	834	23400	22	1390
10	7740	6	125	18700	13	656	22200	19	1140
11	7000	6	113	16100	13	565	20700	18	1010
12	6400	5	86	13200	13	463	19400	13	681
13	6000	5	81	11000	13	386	18500	10	500
14	6400	6	104	9400	12	305	17400	14	658
15	6980	5	94	8800	11	261	18500	16	799
16	7210	4	78	11000	8	238	31700	40	3420
17	7380	7	139	9410	8	203	41500	65	7280
18	6980	5	94	8000	8	173	68800	220	40900
19	6500	4	70	7000	6	113	58500	98	15500
20	6200	6	100	6400	6	104	43800	38	4490
21	6300	6	102	7810	7	148	32700	23	2030
22	6790	90	1650	8280	7	156	25700	16	1110
23	11700	100	3160	7740	6	125	21000	10	567
24	14300	40	1540	7210	6	117	18800	7	355
25	12600	39	1330	6660	5	90	16600	8	359
26	11200	18	544	6370	4	69	16300	7	308
27	10500	14	397	6060	3	49	16300	7	308
28	12100	22	719	5750	3	47	15000	6	243
29	14300	21	811	--	--	--	13700	7	259
30	15600	22	927	--	--	--	12700	8	274
31	15200	26	1070	--	--	--	12200	10	329
TOTAL	339770	--	16982	518790	--	118743	687440	--	91336

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12500	27	911	21400	22	1270	18900	11	561
2	17700	24	1150	20000	13	702	16800	9	408
3	20900	23	1300	17900	12	580	14900	9	362
4	22900	20	1240	16500	10	446	13600	7	257
5	34000	60	5510	15300	9	372	13400	15	543
6	30100	35	2840	13700	8	296	15300	98	4050
7	25700	18	1250	12500	6	203	17400	21	987
8	26100	11	775	11200	6	181	19200	26	1350
9	24600	10	664	11000	5	149	19200	23	1190
10	24000	11	713	12200	22	725	16100	21	913
11	23900	16	1030	18800	42	2130	13200	14	499
12	22700	9	552	23400	34	2150	11300	10	305
13	20900	13	734	24300	30	1970	10800	14	408
14	20100	15	814	22000	17	1010	11000	12	356
15	17800	7	336	19800	15	802	11100	12	360
16	15800	6	256	18000	12	583	9610	14	363
17	13900	6	225	16300	10	440	8390	9	204
18	12400	6	201	16200	15	656	8010	6	130
19	11900	6	193	16100	8	348	8170	7	154
20	11600	6	188	15400	12	499	7760	5	105
21	10900	5	147	18500	19	949	7200	9	175
22	10300	5	139	20400	11	606	7540	8	163
23	9860	5	133	19200	11	570	8880	16	384
24	10000	5	135	17600	10	475	10000	14	378
25	9930	4	107	17400	9	423	9290	10	251
26	10200	4	110	18200	8	393	8070	7	153
27	10900	6	177	17800	6	288	7210	8	156
28	15200	23	944	18700	10	505	6600	7	125
29	21300	25	1440	21300	22	1270	8420	67	1520
30	23100	30	1870	21900	20	1180	8890	41	984
31	--	--	--	20900	15	846	--	--	--
TOTAL	541190	--	26084	553900	--	23017	346240	--	17794

01553115 WEST BRANCH SUSQUEHANNA RIVER AT WATSONTOWN, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8970	22	533	4560	12	148	3400	10	92
2	8030	12	260	4550	9	111	3260	10	88
3	6720	11	200	4800	10	130	3370	10	91
4	7440	22	442	4330	10	117	3060	11	91
5	6860	24	445	3950	8	85	2830	13	99
6	5990	9	146	3410	8	74	3370	18	164
7	5320	7	101	3110	20	168	4880	20	264
8	4690	5	63	2810	60	455	5110	20	276
9	4230	4	46	2600	40	281	4460	11	132
10	3910	5	53	2460	20	133	3650	22	217
11	3670	5	50	2650	10	72	3230	6	52
12	3410	12	110	2710	10	73	2960	5	40
13	3220	19	165	2710	7	51	2690	7	51
14	3200	10	86	2590	20	140	4490	50	606
15	3260	7	62	4770	34	438	11000	60	1780
16	3720	12	121	9580	105	2720	8720	30	706
17	4620	12	150	8960	22	532	7410	25	500
18	4830	14	183	6470	30	524	7320	10	198
19	4000	13	140	15600	350	14700	7750	10	209
20	3510	24	227	17100	150	6930	6540	16	283
21	3580	24	232	13200	110	3920	5450	6	88
22	5030	15	204	10200	33	909	4560	3	37
23	6360	36	618	10300	26	723	5130	7	97
24	6700	21	380	10100	20	545	5540	6	90
25	5430	34	498	7640	20	413	5270	4	57
26	4570	16	197	6200	14	234	4870	5	66
27	4880	25	329	5410	15	219	4610	5	62
28	7470	35	706	4790	16	207	4200	4	45
29	8090	30	655	4280	17	196	3950	3	32
30	6850	18	333	3890	13	137	3820	3	31
31	5140	15	208	3510	13	123	--	--	--
TOTAL	163700	--	7943	189240	--	35508	146900	--	6544

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	4813370
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	531243.0

01567000 JUNIATA RIVER AT NEWPORT, PA.

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, at gaging station on State Highway 34 bridge at Newport, 1,000 ft (305 m) upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,350 mi^2 (8,680 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to June 1953, October 1956 to September 1972 (discontinued).
Water temperatures: October 1944 to September 1950, June 1958 to September 1973.
Sediment records: January 1951 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 356 mg/l Feb. 3; minimum daily, 1 mg/l on many days during October and November.
Sediment discharges: Maximum daily, 29,500 tons (26,800 t) Feb. 3; minimum daily, 2.5 tons (2.3 t) Oct. 18.

Period of record:
Sediment concentrations: Maximum daily, 1,130 mg/l Mar. 2, 1954; minimum daily, 0 mg/l on many days.
Sediment discharges: Maximum daily, 365,000 tons (331,000 t) June 23, 1972; minimum daily, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 271. Unpublished records of water temperatures and specific conductance of sediment samples available in the district office at Harrisburg. Some flow regulation at low flow by powerplants and mills above station.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1220	1	3.3	974	2	5.3	6420	13	225
2	1220	1	3.3	1030	1	2.8	5790	10	156
3	1150	1	3.1	1110	1	3.0	5580	7	105
4	1060	1	2.9	1150	1	3.1	6100	7	115
5	1010	1	2.7	1330	2	7.2	7040	9	171
6	991	1	2.7	1350	3	11	9150	38	1040
7	1110	1	3.0	1270	2	6.9	16200	134	6040
8	1250	2	6.8	2520	7	48	17800	131	6330
9	1970	5	27	4230	26	310	23200	88	5680
10	1660	3	13	4940	42	560	28500	107	8230
11	1580	2	8.5	4210	40	455	27900	84	6330
12	1440	2	7.8	3640	26	256	23400	64	4040
13	1250	2	6.8	3170	16	137	20000	30	1620
14	1250	2	6.8	3950	35	373	16800	24	1090
15	1130	2	6.1	7640	81	1790	12700	15	514
16	1040	1	2.8	9490	117	3000	13100	15	531
17	991	1	2.7	7820	57	1200	13100	20	707
18	940	1	2.5	6250	35	591	11400	14	431
19	974	1	2.6	4910	25	331	9490	10	256
20	974	1	2.6	4830	18	235	8450	10	228
21	974	1	2.6	5250	27	383	8360	7	158
22	991	1	2.7	5330	12	173	14400	32	1460
23	957	1	2.6	5080	11	151	24000	84	5380
24	974	1	2.6	4560	6	74	20700	51	2850
25	1010	2	5.5	3970	4	43	17200	26	1210
26	1030	2	5.6	5560	18	270	14000	18	680
27	1040	1	2.8	10800	75	2280	12300	16	531
28	1030	1	2.8	9740	68	1790	10400	13	365
29	991	1	2.7	8870	32	766	8750	9	213
30	991	2	5.4	7550	19	387	7580	6	123
31	974	2	5.3	--	--	--	7010	6	114
TOTAL	35172	--	157.6	142524	--	15642.3	426820	--	56923

01567000 JUNIATA RIVER AT NEWPORT, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6950	7	131	9430	25	637	2980	2	16
2	6370	8	138	10200	22	606	3070	2	17
3	5670	6	92	29400	356	29500	3420	2	18
4	5610	5	76	28800	256	20600	3920	1	11
5	6160	8	133	21000	93	5270	5580	14	211
6	6680	10	180	17000	74	3400	6540	13	230
7	6080	8	131	13300	36	1290	7700	21	437
8	5000	7	95	11300	24	732	8060	16	348
9	4500	6	73	11000	22	653	8510	20	460
10	4000	7	76	10000	13	351	8000	16	346
11	3600	8	78	8630	12	280	7280	14	275
12	3300	6	53	7310	9	178	6660	12	216
13	3100	8	67	6340	7	120	6220	10	168
14	3000	6	49	5810	7	110	5760	9	140
15	3000	7	57	5400	6	87	5700	8	123
16	3100	6	50	5000	6	81	5710	9	139
17	3270	5	44	4800	7	91	6690	23	501
18	3190	4	34	4500	7	85	10200	142	3870
19	3100	3	25	4000	5	54	9860	93	2480
20	3000	2	16	3600	6	58	8780	40	948
21	2900	2	16	3870	6	63	7530	18	366
22	3340	5	45	4050	5	55	6980	11	207
23	5540	25	436	4000	6	65	6220	9	151
24	7730	77	1580	3770	6	61	5600	6	91
25	6080	66	1080	3540	4	38	5210	4	56
26	5500	29	431	3320	3	27	5030	4	54
27	5300	14	200	3240	2	17	5000	4	54
28	7760	22	461	3100	2	17	4680	3	38
29	11700	57	1800	--	--	--	4270	3	35
30	13600	65	2390	--	--	--	4050	4	44
31	11400	37	1140	--	--	--	3920	4	42
TOTAL	169530	--	11177	245710	--	64526	189130	--	12092

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4250	7	80	7650	21	434	6670	35	630
2	6890	28	521	6460	16	279	5610	25	379
3	7950	40	859	5890	15	239	4820	18	234
4	9190	35	868	5780	16	250	4330	13	152
5	18700	158	7980	5290	12	171	3990	12	129
6	18500	126	6380	4590	9	112	3810	11	113
7	15800	67	2860	4120	9	100	9100	139	3730
8	14400	60	2330	3770	7	71	8240	321	7300
9	17700	63	3010	4370	20	236	5800	115	1800
10	18300	55	2720	5300	22	315	4710	60	763
11	20200	74	4040	7550	66	1350	4030	40	435
12	17000	46	2110	6580	46	817	3500	26	246
13	14100	26	990	5760	24	373	3310	20	179
14	11500	17	528	5160	18	251	3520	24	228
15	9640	10	260	4630	15	188	3070	15	124
16	8180	10	221	4290	11	127	2640	12	86
17	6510	10	176	4040	10	109	2600	15	105
18	4610	7	87	4390	11	130	2680	17	123
19	4360	4	47	4210	7	80	2620	16	113
20	4040	3	33	3800	5	51	2530	14	96
21	3700	2	20	3900	9	95	2430	15	98
22	3440	2	19	3960	8	86	3870	139	1500
23	3280	3	27	3650	6	59	3520	103	979
24	3520	8	76	3500	9	85	2790	47	354
25	3990	11	119	4900	18	238	2770	36	269
26	4360	14	165	6280	30	509	2790	54	407
27	6760	32	584	5810	32	502	2340	28	177
28	10500	56	1590	7310	32	632	2190	23	136
29	12700	65	2230	11200	78	2360	3230	40	349
30	9680	37	967	10600	85	2430	3420	70	646
31	--	--	--	8200	50	1110	--	--	--
TOTAL	293750	--	41897	172940	--	13789	116930	--	21880

01567000 JUNIATA RIVER AT NEWPORT, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3070	45	373	1200	15	49	852	12	28
2	2340	23	145	1270	23	79	888	12	29
3	2100	16	91	1210	22	72	955	14	36
4	2540	35	240	1290	20	70	875	10	24
5	2410	40	260	1150	20	62	843	10	23
6	2230	34	205	1030	24	67	828	10	22
7	1930	27	141	942	23	58	832	6	13
8	1740	18	85	902	18	44	767	12	25
9	1620	15	66	876	18	43	728	10	20
10	1560	12	51	887	17	41	700	10	19
11	1480	12	48	1260	28	95	682	8	15
12	1460	14	55	1320	36	128	666	6	11
13	1400	17	64	1160	37	116	645	11	19
14	1370	12	44	1030	32	89	1540	58	391
15	1250	8	27	1010	34	93	3110	100	840
16	1240	10	33	952	39	100	2040	50	275
17	1240	11	37	927	44	110	1830	32	158
18	1270	11	38	917	53	131	4350	145	2180
19	1180	9	29	2160	115	671	4400	172	2010
20	1130	10	31	2270	115	705	3500	91	922
21	1130	8	24	2100	80	623	2320	28	175
22	1290	16	56	3710	193	2080	1750	17	80
23	1480	20	80	2880	70	544	1870	15	76
24	1520	19	78	2100	45	255	2010	23	125
25	1370	18	67	1580	30	128	1790	15	72
26	1350	19	69	1330	21	75	1710	24	111
27	1560	22	93	1190	18	58	1430	18	69
28	2040	24	132	1100	20	59	1250	14	47
29	1520	21	86	1010	17	46	1280	10	35
30	1280	19	66	945	14	36	1850	13	65
31	1240	17	57	896	14	34	--	--	--
TOTAL	50340	--	2871	42604	--	6761	48291	--	7915

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	1933741
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	255630.9

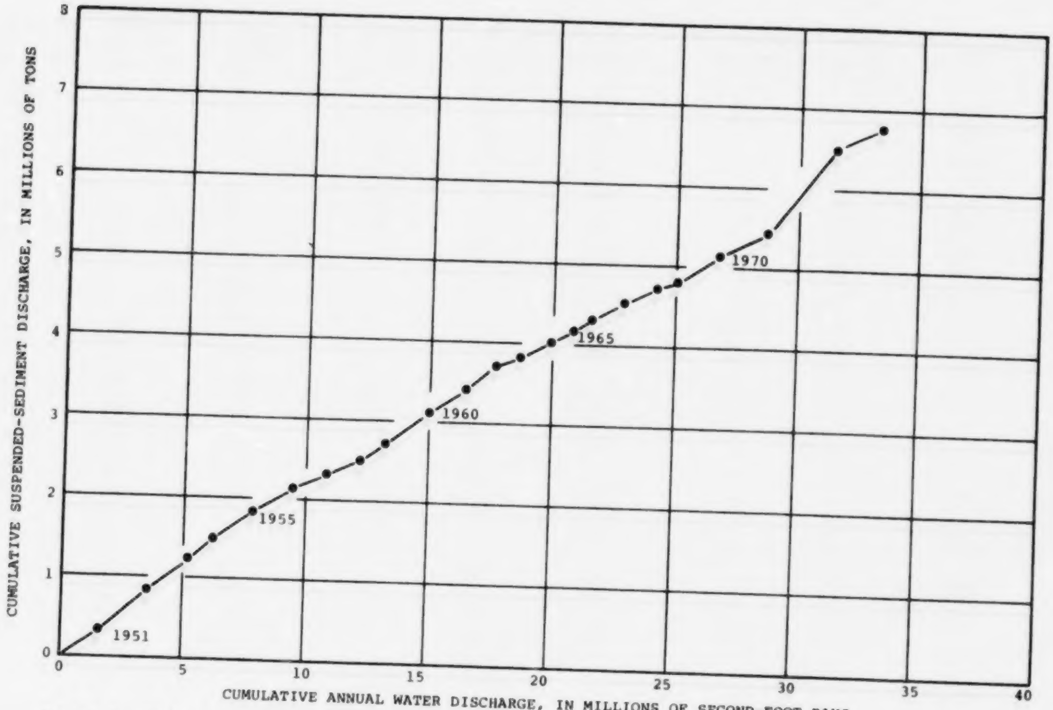

Figure 6.--Double mass accumulation of annual suspended sediment discharge versus annual water discharge, Juniata River at Newport

Table 10.--Suspended sediment concentration-duration table, Juniata River at Newport

Period	Mean daily concentration, in milligrams per liter, that was equaled or exceeded for indicated percentage of time													
	1	2	5	10	20	30	40	50	60	70	80	90	95	99
1973	185	140	105	70	38	25	19	15	12	9	6	3	2	1
1951-73	262	178	92	50	27	18	13	9	7	5	4	3	2	1

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'27", long 76°59'38", Cumberland County, at gaging station on right bank 720 ft (219 m) upstream from bridge on State Highway 944, 3.2 miles (5.15 km) upstream from mouth, and 3.3 miles (5.31 km) west of Enola.

DRAINAGE AREA.--0.77 mi^2 (1.99 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1973.
Sediment records: April 1969 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 383 mg/l June 28; minimum, 1 mg/l on several days.
Sediment discharges: Maximum, 25 tons (22.7 t) June 28; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 383 mg/l June 22, 1972; minimum, 1 mg/l on many days.
Sediment discharges: Maximum, 285 tons (258 t) June 22, 1972; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 273.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.09	7	0	.11	1	0	.66	2	0
2	.08	7	0	.13	3	0	1.1	10	.03
3	.07	6	0	.13	2	0	1.2	10	.03
4	.08	6	0	.11	2	0	1.1	7	.02
5	.09	5	0	.09	1	0	1.1	5	.01
6	.10	5	0	.09	1	0	5.0	60	1.8
7	.21	10	.01	.11	1	0	2.3	6	.04
8	.12	4	0	1.3	47	.25	3.6	14	.24
9	.09	1	0	.31	2	0	5.4	11	.16
10	.07	1	0	.20	2	0	5.6	17	.29
11	.08	2	0	.19	2	0	2.7	4	.03
12	.07	2	0	.15	2	0	2.1	5	.03
13	.07	2	0	.13	1	0	2.1	5	.03
14	.07	4	0	3.8	70	1.1	1.5	4	.02
15	.08	3	0	1.3	5	.02	3.6	25	.36
16	.09	4	0	.65	5	.01	3.3	7	.06
17	.09	2	0	.52	4	.01	1.6	3	.01
18	.10	2	0	.42	4	0	1.3	3	.01
19	.15	8	0	1.7	40	.80	1.2	3	.01
20	.11	4	0	2.9	15	.22	1.6	3	.01
21	.10	3	0	.89	4	.01	2.1	18	.18
22	.09	3	0	.64	4	.01	7.5	30	.77
23	.10	3	0	.51	4	.01	3.2	6	.05
24	.09	2	0	.43	4	0	2.3	4	.02
25	.09	2	0	.39	5	.01	1.8	4	.02
26	.09	2	0	4.7	45	1.0	1.9	8	.04
27	.09	3	0	1.3	6	.02	1.8	6	.03
28	.12	8	0	.94	4	.01	1.3	3	.01
29	.11	5	0	.73	4	.01	1.1	3	.01
30	.11	3	0	.66	4	.01	1.0	3	.01
31	.11	2	0	--	--	--	3.9	25	.40
TOTAL	3.01	--	.01	25.53	--	3.50	75.96	--	4.73

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.5	4	.03	1.5	3	.01	.74	3	.01
2	1.8	3	.01	11	183	8.1	.79	4	.01
3	1.5	7	.04	5.8	18	.32	.86	5	.01
4	4.6	27	.42	3.3	6	.05	1.0	5	.01
5	2.5	4	.03	2.4	4	.03	.94	6	.02
6	1.8	3	.01	2.1	4	.02	.96	6	.02
7	1.4	2	.01	2.3	2	.01	1.1	6	.02
8	1.1	2	.01	2.6	16	.13	1.6	7	.03
9	.98	2	.01	2.0	3	.02	1.1	4	.01
10	.79	2	0	1.5	2	.01	.95	3	.01
11	.68	2	0	1.2	2	.01	.95	3	.01
12	.58	2	0	.98	1	0	.95	3	.01
13	.50	2	0	.98	1	0	.77	3	.01
14	.49	2	0	1.0	5	.03	.70	3	.01
15	.52	3	0	2.8	26	.40	.70	2	0
16	.50	3	0	2.1	4	.02	.67	8	.02
17	.51	3	0	1.4	2	.01	4.9	121	3.6
18	.51	3	0	1.1	1	0	2.2	7	.04
19	.63	6	.01	1.0	1	0	1.6	5	.02
20	.60	4	.01	1.1	6	.02	1.3	4	.01
21	.44	3	0	1.6	10	.04	1.2	4	.01
22	3.2	108	1.9	1.6	5	.02	1.1	4	.01
23	1.9	9	.06	1.3	1	0	.88	4	.01
24	1.3	7	.02	1.1	1	0	.79	4	.01
25	1.1	5	.01	.88	2	0	.98	19	.10
26	.98	4	.01	.89	2	0	1.8	10	.05
27	3.4	54	.69	.80	2	0	.98	6	.02
28	3.5	33	.57	.74	2	0	.79	5	.01
29	7.1	56	1.7	--	--	--	.70	5	.01
30	2.5	3	.02	--	--	--	.98	10	.03
31	1.9	3	.02	--	--	--	.98	14	.06
TOTAL	51.81	--	5.59	57.07	--	9.25	35.96	--	4.20

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.2	58	.84	1.8	3	.01	1.8	5	.02
2	3.7	10	.10	1.8	6	.03	1.3	4	.01
3	2.2	5	.03	3.1	22	.23	1.2	4	.01
4	8.3	168	9.7	2.0	5	.03	1.3	57	.35
5	4.2	16	.18	1.6	4	.02	1.1	6	.02
6	2.6	6	.04	1.4	4	.02	.86	4	.01
7	2.1	7	.04	1.2	4	.01	.77	4	.01
8	7.9	72	2.6	1.2	6	.02	.62	4	.01
9	3.5	6	.06	2.6	19	.17	.52	5	.01
10	5.4	28	.52	1.4	7	.03	.46	5	.01
11	2.9	6	.05	1.3	7	.02	.41	5	.01
12	2.4	5	.03	1.1	5	.01	.40	12	.01
13	2.1	5	.03	.95	5	.01	.40	7	.01
14	1.6	4	.02	.84	4	.01	.31	7	.01
15	1.4	4	.02	.78	5	.01	.31	7	.01
16	1.3	4	.01	.67	4	.01	.67	46	.18
17	1.4	7	.03	.97	11	.04	.50	16	.02
18	1.4	6	.02	.95	4	.01	.50	10	.01
19	1.2	6	.02	.67	3	.01	.40	9	.01
20	.98	6	.02	2.2	30	.29	.35	8	.01
21	.88	5	.01	1.4	4	.02	.47	134	.59
22	.84	5	.01	.87	3	.01	.62	25	.06
23	1.4	15	.08	.92	6	.01	.40	12	.01
24	1.3	6	.02	2.0	33	.47	.56	111	.38
25	2.3	47	.73	3.6	7	.07	.45	12	.01
26	3.2	13	.13	2.0	5	.03	.35	10	.01
27	5.7	44	1.1	2.5	17	.19	.31	8	.01
28	3.8	6	.06	7.1	36	.90	3.2	383	25
29	2.4	4	.03	3.2	10	.09	4.8	102	2.8
30	2.0	4	.02	3.0	55	.91	1.2	13	.04
31	--	--	--	2.8	6	.05	--	--	--
TOTAL	85.60	--	16.55	57.92	--	3.74	26.54	--	29.65

01570100 CONODOGUINET CREEK TRIBUTARY NO. 1 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.63	10	.02	.49	244	.97	.08	10	0
2	.50	9	.01	.32	20	.02	.08	8	0
3	.45	9	.01	.14	10	0	.08	7	0
4	.40	9	.01	.12	10	0	.07	7	0
5	.35	7	.01	.11	10	0	.07	6	0
6	.27	6	0	.10	10	0	.08	6	0
7	.27	6	0	.10	10	0	.07	4	0
8	.23	6	0	.10	8	0	.06	3	0
9	.23	7	0	.10	6	0	.03	3	0
10	.19	7	0	.47	312	3.6	.06	3	0
11	.23	6	0	.17	13	.01	.05	3	0
12	.19	5	0	.13	12	0	.04	4	0
13	.18	5	0	.12	12	0	.05	3	0
14	.17	4	0	.17	21	.01	11	230	11
15	.18	4	0	.20	18	.01	1.4	18	.07
16	.17	3	0	.12	12	0	.60	4	.01
17	.16	3	0	.11	10	0	.44	3	0
18	.15	3	0	.70	219	3.3	1.9	85	1.2
19	.14	3	0	.25	16	.01	.65	8	.01
20	.17	31	.04	.17	10	0	.48	2	0
21	.23	12	.01	.15	8	0	.38	1	0
22	.17	10	0	.12	6	0	.35	1	0
23	.14	8	0	.12	10	0	.50	14	.03
24	.12	6	0	.11	8	0	.29	6	0
25	.14	12	.01	.10	6	0	.27	4	0
26	.16	7	0	.10	6	0	.25	4	0
27	.12	6	0	.10	22	.01	.22	4	0
28	.11	4	0	.09	6	0	.21	3	0
29	.11	4	0	.08	4	0	.29	10	.01
30	.11	4	0	.08	5	0	.22	3	0
31	.10	4	0	.08	7	0	--	--	--
TOTAL	6.77	--	.12	5.32	--	7.94	20.27	--	12.33

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 451.76
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 97.61

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
APR. 04...	1333	27	350	1380	101	--	26	--	--	--	78
JUNE 28...	2130	23	4500	6750	419	42	60	77	89	96	98

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.

LOCATION.--Lat 40°17'21", long 76°58'35", Cumberland County, at gaging station on right bank 100 ft (30 m) upstream from bridge on Valley Street, 1.7 mile (2.7 km) upstream from mouth, and 2.4 miles (3.9 km) west of Enola.

DRAINAGE AREA.--0.76 mi^2 (1.97 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 860 mg/l Sept. 14; minimum, 1 mg/l on several days during October and November.
Sediment discharges: Maximum, 52 tons (47 t) Sept. 14; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 860 mg/l Sept. 14, 1973; minimum, 1 mg/l on several days during October and November 1972.
Sediment discharges: Maximum, 52 tons (47 t) Sept. 14, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 275. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.10	5	0	.16	1	0	.87	18	.04
2	.07	5	0	.34	2	0	1.3	26	.12
3	.05	5	0	.36	8	.01	1.4	12	.05
4	.07	5	0	.20	3	0	1.4	9	.03
5	.12	5	0	.18	3	0	1.3	12	.04
6	.12	5	0	.18	2	0	6.8	180	7.9
7	.33	10	.01	.18	1	0	2.9	72	.56
8	.13	4	0	2.2	61	.38	4.5	137	2.0
9	.08	4	0	.60	8	.01	6.7	40	.72
10	.05	3	0	.38	3	0	6.5	61	1.3
11	.09	2	0	.33	3	0	3.0	82	.83
12	.08	1	0	.27	2	0	2.1	30	.17
13	.08	1	0	.23	1	0	2.1	59	.33
14	.08	1	0	5.6	115	2.4	1.6	110	.48
15	.06	1	0	1.9	93	.48	4.4	87	1.1
16	.05	1	0	.88	16	.04	3.9	18	.19
17	.05	4	0	.65	16	.03	1.6	16	.07
18	.06	2	0	.52	9	.01	1.3	15	.05
19	.23	10	.01	1.9	74	1.7	1.1	45	.13
20	.14	7	0	4.8	46	.85	1.5	14	.06
21	.11	5	0	1.2	11	.04	2.1	41	.41
22	.14	6	0	.86	9	.02	9.0	81	2.3
23	.14	6	0	.66	7	.01	3.3	11	.10
24	.16	6	0	.56	6	.01	2.1	7	.04
25	.12	9	0	.51	8	.01	1.6	6	.03
26	.10	1	0	6.8	127	4.5	1.6	11	.05
27	.08	1	0	1.7	14	.06	1.6	7	.03
28	.20	5	0	1.2	12	.04	1.1	8	.02
29	.23	1	0	.88	60	.14	.92	13	.03
30	.15	1	0	.88	50	.12	.90	13	.03
31	.11	1	0	--	--	--	4.5	97	1.5
TOTAL	3.58	--	.02	36.31	--	10.86	84.99	--	20.71

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	10	.03	1.2	84	.27	.62	15	.03
2	1.6	10	.04	11	381	16	.68	12	.02
3	1.3	14	.06	6.8	51	1.1	.75	15	.03
4	5.3	50	.98	2.9	30	.23	.89	17	.04
5	2.3	10	.06	2.1	406	2.3	.85	12	.03
6	1.6	8	.03	1.6	300	1.3	.89	7	.02
7	1.1	6	.02	1.8	674	3.3	.97	10	.03
8	1.0	14	.04	2.1	164	.94	1.5	30	.12
9	.70	12	.02	1.6	31	.13	1.1	15	.04
10	.64	8	.01	1.3	45	.16	.94	11	.03
11	.62	6	.01	1.0	25	.07	.90	11	.03
12	.52	4	.01	.85	90	.21	.90	10	.02
13	.47	4	.01	.75	150	.30	.75	11	.02
14	.47	5	.01	.76	226	.43	.68	8	.01
15	.50	5	.01	2.4	95	.71	.64	6	.01
16	.47	3	0	1.8	20	.10	.64	29	.05
17	.47	4	.01	1.2	11	.04	4.2	387	6.8
18	.45	5	.01	.93	7	.02	1.8	30	.15
19	.52	8	.01	.85	6	.01	1.3	79	.28
20	.57	5	.01	.85	15	.03	1.1	77	.23
21	.45	10	.01	1.2	26	.10	.96	100	.26
22	3.5	205	4.7	1.3	6	.02	.84	46	.10
23	2.3	30	.19	1.0	15	.04	.78	47	.10
24	1.3	19	.07	.89	4	.01	.60	9	.01
25	1.0	15	.04	.80	6	.01	.69	26	.07
26	.89	43	.10	.80	20	.04	1.4	40	.16
27	3.6	124	1.5	.70	8	.02	.72	25	.05
28	3.9	60	1.1	.66	45	.08	.62	15	.03
29	8.5	119	3.8	--	--	--	.55	20	.03
30	2.2	54	.32	--	--	--	.68	20	.04
31	1.6	69	.30	--	--	--	.81	16	.04
TOTAL	51.06	--	13.51	51.12	--	27.87	30.75	--	8.88

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.0	114	1.7	1.2	9	.03	1.4	12	.05
2	3.9	52	.55	1.1	10	.03	1.1	15	.04
3	1.7	15	.07	1.8	50	.29	1.1	11	.03
4	9.2	334	18	1.4	15	.06	1.0	148	.82
5	3.6	50	.49	.97	12	.03	.97	18	.05
6	2.0	25	.14	.92	9	.02	.79	15	.03
7	1.6	30	.13	.75	20	.04	.66	20	.04
8	8.7	139	4.8	.88	6	.02	.60	15	.02
9	2.7	40	.29	1.8	55	.33	.55	15	.02
10	5.5	82	1.4	1.1	11	.03	.47	15	.02
11	2.1	16	.09	1.0	21	.06	.47	16	.02
12	1.6	20	.09	.89	10	.02	.45	41	.06
13	1.2	20	.06	.75	6	.01	.47	12	.02
14	1.0	8	.02	.68	5	.01	.37	11	.01
15	.95	7	.02	.62	7	.01	.37	10	.01
16	.82	7	.02	.57	8	.01	.61	95	.37
17	.99	10	.02	.70	15	.03	.52	27	.04
18	.89	8	.02	.75	6	.01	.52	20	.03
19	.68	10	.02	.57	5	.01	.45	20	.02
20	.62	8	.01	2.2	55	.45	.42	150	.17
21	.57	7	.01	1.4	9	.03	.58	288	1.6
22	.57	6	.01	.90	8	.02	.81	115	.27
23	.70	27	.05	.82	7	.02	.45	25	.03
24	.85	14	.03	1.7	59	.67	.55	154	.50
25	1.7	84	.97	3.6	27	.32	.56	58	.09
26	2.8	22	.22	1.8	8	.04	.42	16	.02
27	5.6	84	1.8	2.6	30	.21	.38	16	.02
28	3.0	15	.12	7.8	64	1.7	2.1	300	9.8
29	1.9	9	.05	2.7	10	.07	5.5	99	3.2
30	1.4	8	.03	2.5	110	2.0	1.1	13	.04
31	--	--	--	2.4	20	.13	--	--	--
TOTAL	73.84	--	31.23	48.77	--	6.71	25.74	--	17.44

01570200 CONODOGUINET CREEK TRIBUTARY NO. 2 NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.62	12	.02	1.1	189	1.9	.10	10	0
2	.52	10	.01	.56	58	.11	.10	10	0
3	.52	12	.02	.20	12	.01	.10	9	0
4	.47	10	.01	.15	10	0	.10	9	0
5	.42	8	.01	.12	8	0	.12	8	0
6	.32	7	.01	.20	15	.01	.14	7	0
7	.32	8	.01	.15	70	.03	.11	7	0
8	.30	8	.01	.15	18	.01	.08	7	0
9	.23	9	.01	.21	72	.05	.06	7	0
10	.23	9	.01	1.4	630	23	.07	7	0
11	.21	8	0	.47	32	.04	.09	8	0
12	.18	8	0	.23	12	.01	.08	11	0
13	.18	8	0	.21	15	.01	.06	10	0
14	.16	8	0	.21	20	.01	22	860	52
15	.20	8	0	.44	83	.13	2.7	40	.35
16	.18	8	0	.25	55	.04	1.2	14	.05
17	.20	8	0	.22	12	.01	.86	12	.03
18	.18	9	0	2.0	695	29	3.6	426	16
19	.15	9	0	.71	40	.08	1.1	20	.06
20	.22	56	.09	.45	35	.04	.89	14	.03
21	.38	53	.08	.37	22	.02	.72	10	.02
22	.20	12	.01	.29	16	.01	.68	10	.02
23	.20	12	.01	.23	12	.01	1.1	74	.36
24	.17	12	.01	.21	12	.01	.57	10	.02
25	.15	25	.01	.21	12	.01	.50	10	.01
26	.22	24	.02	.19	12	.01	.45	10	.01
27	.12	12	0	.18	11	.01	.42	8	.01
28	.10	12	0	.15	10	0	.40	5	.01
29	.09	12	0	.12	9	0	.57	12	.02
30	.19	12	.01	.12	9	0	.47	8	.01
31	.11	12	0	.12	9	0	--	--	--
TOTAL	7.74	--	.36	11.62	--	54.57	39.44	--	69.01

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 464.94
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 261.17

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
DEC.											
06...	1130	26	950	1850	130	--	52	--	--	--	100
08...	0615	1.6	400	581	2.5	--	77	--	--	--	100
FEB.											
02...	1455	23	270	793	49	--	42	--	--	--	93
APR.											
04...	1410	32	--	2080	180	--	38	--	--	--	93
JUNE											
21...	2242	2.2	4000	4120	24	62	80	94	98	98	100
28...	2225	24	1500	2390	155	49	65	74	85	93	97

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.

LOCATION.--Lat 40°17'44", long 76°57'55", Cumberland County, at gaging station on left bank 120 ft (37 m) downstream from bridge on Valley Street, 2.6 miles (4.2 km) upstream from mouth, and 1.6 miles (2.6 km) west of Enola.

DRAINAGE AREA.--0.70 mi^2 (1.81 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 1,080 mg/l Sept. 14; minimum, 1 mg/l on several days during October and November.
Sediment discharges: Maximum, 55 tons (50 t) Sept. 14; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 1,080 mg/l Sept. 14, 1973; minimum, 1 mg/l on several days during October and November 1972.
Sediment discharges: Maximum, 55 tons (50 t) Sept. 14, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 277. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.15	4	0	.11	3	0	.56	4	.01
2	.10	3	0	.18	3	0	.87	5	.02
3	.10	2	0	.17	3	0	.96	5	.01
4	.11	2	0	.10	3	0	.96	3	.01
5	.09	3	0	.10	2	0	.89	3	.01
6	.08	4	0	.09	2	0	4.4	56	1.6
7	.25	11	.01	.09	2	0	2.0	38	.18
8	.07	3	0	2.1	44	.43	3.0	36	.61
9	.05	2	0	.46	4	0	4.9	20	.26
10	.05	1	0	.25	3	0	4.9	23	.35
11	.05	1	0	.23	2	0	2.4	53	.38
12	.05	1	0	.19	1	0	1.8	8	.04
13	.05	2	0	.15	1	0	1.8	10	.05
14	.05	2	0	4.5	52	.95	1.3	23	.08
15	.05	2	0	1.4	10	.04	3.6	60	.87
16	.05	2	0	.62	4	.01	3.6	16	.18
17	.05	2	0	.42	3	0	1.4	5	.02
18	.07	2	0	.30	3	0	1.0	3	.01
19	.25	6	0	1.5	56	1.0	.96	93	.24
20	.12	3	0	2.7	29	.40	1.4	17	.06
21	.10	1	0	.72	4	.01	2.1	45	.49
22	.10	1	0	.56	3	0	6.7	88	1.8
23	.10	2	0	.42	2	0	2.9	8	.06
24	.10	1	0	.36	2	0	1.9	5	.03
25	.10	1	0	.30	4	0	1.6	5	.02
26	.10	1	0	4.7	61	1.3	1.6	7	.03
27	.11	1	0	1.2	6	.02	1.4	5	.02
28	.19	5	0	.83	4	.01	1.1	3	.01
29	.17	2	0	.62	4	.01	.89	3	.01
30	.13	2	0	.60	4	.01	.75	3	.01
31	.12	2	0	--	--	--	4.4	103	1.7
TOTAL	3.16	--	.01	25.97	--	4.19	68.04	--	9.17

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.2	13	.08	1.3	8	.03	.58	2	0
2	1.4	4	.02	8.4	216	7.0	.62	2	0
3	1.2	6	.02	5.7	22	.37	.67	6	.01
4	5.0	39	.72	2.8	8	.06	.80	6	.01
5	2.2	4	.02	2.4	26	.17	.75	2	0
6	1.4	3	.01	2.0	10	.05	.75	2	0
7	1.1	3	.01	2.0	12	.06	.83	2	0
8	.96	6	.02	2.3	13	.10	1.2	16	.05
9	.83	3	.01	1.8	4	.02	.89	5	.01
10	.73	3	.01	1.2	3	.01	.77	3	.01
11	.65	3	.01	.90	3	.01	.72	3	.01
12	.55	3	0	.77	3	.01	.67	2	0
13	.50	3	0	.72	7	.01	.58	2	0
14	.48	3	0	.75	16	.03	.50	2	0
15	.46	3	0	2.6	31	.24	.50	3	0
16	.42	3	0	1.8	7	.03	.54	5	.01
17	.40	3	0	1.3	5	.02	4.0	170	5.2
18	.40	3	0	.96	5	.01	1.9	12	.06
19	.46	4	0	.83	4	.01	1.2	6	.02
20	.50	3	0	.87	4	.01	1.0	5	.01
21	.33	3	0	1.4	10	.05	.89	5	.01
22	3.0	84	1.7	1.2	7	.02	.77	4	.01
23	1.9	20	.10	.90	6	.01	.62	3	.01
24	1.0	7	.02	.83	4	.01	.54	3	0
25	.83	4	.01	.77	2	0	.64	10	.03
26	.83	4	.01	.72	1	0	1.2	16	.06
27	3.1	70	.90	.67	7	.01	.67	4	.01
28	3.0	30	.35	.62	6	.01	.54	8	.01
29	6.6	53	1.2	--	--	--	.50	10	.01
30	2.2	10	.06	--	--	--	.67	6	.01
31	1.6	9	.04	--	--	--	.70	8	.02
TOTAL	46.23	--	5.32	48.51	--	8.36	27.21	--	5.58

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.4	49	.62	1.3	9	.03	1.2	6	.02
2	4.3	9	.10	1.2	11	.04	.83	5	.01
3	1.8	8	.04	1.5	17	.08	.67	5	.01
4	8.0	211	11	1.2	6	.02	.68	16	.03
5	4.4	20	.24	.96	5	.01	.62	7	.01
6	2.3	7	.04	.89	4	.01	.52	8	.01
7	1.8	10	.05	.65	4	.01	.48	8	.01
8	7.4	129	4.6	.70	8	.01	.39	6	.01
9	2.9	6	.05	1.6	22	.12	.32	5	0
10	5.7	30	.71	.96	6	.02	.30	5	0
11	2.4	6	.04	.87	8	.02	.27	5	0
12	1.9	5	.03	.85	6	.01	.32	30	.03
13	1.5	5	.02	.75	3	.01	4.3	98	2.0
14	1.3	5	.02	.72	4	.01	1.2	88	.98
15	1.0	4	.01	.72	4	.01	.28	34	.03
16	.90	4	.01	.70	3	.01	.57	108	.37
17	1.0	7	.02	.61	8	.02	.44	33	.04
18	1.0	7	.02	.77	4	.01	.72	89	.54
19	.90	6	.01	.72	3	.01	.32	43	.04
20	.75	6	.01	1.9	39	.36	.15	15	.01
21	.72	5	.01	1.2	5	.02	.45	101	.58
22	.67	5	.01	.77	4	.01	.62	49	.12
23	.96	12	.03	.77	7	.01	.27	18	.01
24	.90	7	.02	1.6	42	.51	.42	109	.33
25	1.9	55	.85	3.1	16	.17	.30	23	.02
26	2.7	14	.10	1.5	7	.03	.21	12	.01
27	5.4	44	.90	1.9	26	.25	.20	15	.01
28	3.3	10	.09	8.0	68	1.5	1.3	220	5.5
29	1.8	6	.03	3.1	10	.08	2.5	94	1.2
30	1.5	7	.03	2.1	26	.30	.45	18	.02
31	--	--	--	2.3	11	.08	--	--	--
TOTAL	75.50	--	19.71	45.91	--	3.78	21.30	--	11.95

01570230 CONODOGUINET CREEK TRIBUTARY NO. 2A NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.30	13	.01	.96	257	3.2	.08	7	0
2	.25	13	.01	.37	51	.11	.09	8	0
3	.27	18	.01	.11	12	0	.08	8	0
4	.20	16	.01	.08	10	0	.09	8	0
5	.19	14	.01	.07	9	0	.08	8	0
6	.16	13	.01	.07	32	.01	.11	8	0
7	.16	12	.01	.07	35	.01	.11	7	0
8	.14	12	0	.08	33	.02	.10	5	0
9	.11	11	0	.10	167	.05	.10	5	0
10	.10	10	0	1.2	494	13	.09	6	0
11	.11	10	0	.25	77	.06	.08	8	0
12	.08	9	0	.16	18	.01	.06	10	0
13	.07	8	0	.13	11	0	.07	10	0
14	.07	9	0	.18	170	.15	13	1080	55
15	.10	10	0	.29	304	.66	1.9	41	.27
16	.08	10	0	.13	20	.01	.63	15	.03
17	.07	10	0	.11	12	0	.36	10	.01
18	.07	10	0	1.0	655	16	2.3	378	14
19	.06	10	0	.33	138	.14	.52	18	.03
20	.14	91	.19	.21	30	.02	.33	14	.01
21	.18	100	.13	.17	20	.01	.29	14	.01
22	.11	11	0	.15	17	.01	.25	14	.01
23	.08	11	0	.15	14	.01	.56	187	.88
24	.07	11	0	.15	13	.01	.21	13	.01
25	.10	16	.01	.15	13	.01	.17	11	.01
26	.11	16	.01	.15	12	0	.15	9	0
27	.08	8	0	.15	12	0	.13	7	0
28	.07	8	0	.13	10	0	.12	6	0
29	.07	8	0	.10	10	0	.26	35	.03
30	.06	8	0	.10	8	0	.16	26	.01
31	.06	8	0	.10	8	0	--	--	--
TOTAL	3.72	--	.41	7.40	--	33.50	22.48	--	70.31

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 395.43
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 172.29

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
FEB. 02...	1423	19	--	270	974	50	--	33	--	--	--	85
APR. 04...	1437	22	9.0	--	--	--	--	39	--	--	--	88
JUNE 28...	2222	12	--	2000	3850	129	40	57	73	88	96	98
SEP. 14...	0755	8.9	--	2900	4164	100	54	71	87	97	99	100

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.

LOCATION.--Lat 40°17'47", long 76°57'51", Cumberland County, at gaging station on right bank 20 ft (6 m) upstream from bridge on Valley Street, 2.6 miles (4.2 km) upstream from mouth, and 1.6 miles (2.6 km) west of Enola.

DRAINAGE AREA.--0.65 mi^2 (1.68 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972 (partial-record station), October 1972 to September 1973.
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 2,370 mg/l Sept. 14; minimum, 6 mg/l Nov. 30.
Sediment discharges: Maximum, 125 tons (113 t) Sept. 14; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 2,370 mg/l Sept. 14, 1973; minimum, 6 mg/l Nov. 30, 1972.
Sediment discharges: Maximum, 125 tons (113 t) Sept. 14, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 279. Unpublished sediment records from April 1969 to September 1972 available at the district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.08	30	.01	.12	29	.01	.58	8	.01
2	.08	30	.01	.26	110	.08	.88	35	.08
3	.07	30	.01	.21	80	.05	1.1	25	.07
4	.06	50	.01	.14	17	.01	.90	35	.09
5	.06	25	0	.12	23	.01	.90	20	.05
6	.06	25	0	.11	15	0	4.8	209	4.3
7	.24	46	.04	.11	25	.01	2.0	24	.13
8	.07	30	.01	2.0	240	2.2	3.3	49	.60
9	.07	28	.01	.40	20	.02	4.8	30	.39
10	.06	30	0	.36	12	.01	4.9	45	.69
11	.08	32	.01	.29	12	.01	2.7	12	.09
12	.11	23	.01	.26	12	.01	1.9	149	.76
13	.08	20	0	.21	11	.01	1.9	144	.74
14	.06	25	0	3.8	215	3.0	1.2	312	1.0
15	.06	20	0	1.0	20	.05	3.8	283	3.5
16	.08	25	.01	.60	15	.02	2.9	66	.52
17	.07	20	0	.44	15	.02	1.2	30	.10
18	.08	25	.01	.36	15	.01	.88	627	1.5
19	.21	35	.02	1.7	180	2.3	.97	40	.10
20	.11	30	.01	2.3	35	.28	1.2	90	.29
21	.11	30	.01	.72	14	.03	2.2	161	1.8
22	.11	23	.01	.48	13	.02	6.7	215	5.0
23	.12	22	.01	.44	12	.01	2.7	50	.36
24	.14	16	.01	.40	10	.01	1.9	35	.18
25	.11	18	.01	.44	7	.01	1.6	25	.11
26	.09	18	0	4.5	137	3.0	1.6	38	.19
27	.08	22	0	.97	12	.03	1.3	18	.06
28	.14	30	.01	.80	12	.03	1.2	15	.05
29	.12	25	.01	.60	7	.01	.88	12	.03
30	.11	20	.01	.53	6	.01	.88	18	.04
31	.11	18	.01	--	--	--	2.7	165	2.8
TOTAL	3.03	--	.26	24.67	--	11.27	66.47	--	25.63

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.2	25	.15	1.2	22	.07	.72	60	.12
2	1.6	15	.06	11	660	27	.72	100	.19
3	1.3	55	.19	6.0	90	1.3	.70	50	.09
4	4.5	177	2.7	3.3	60	.53	.80	30	.06
5	2.2	225	1.3	2.8	109	.82	.72	120	.23
6	1.4	140	.53	2.2	50	.30	.65	35	.06
7	1.2	20	.06	2.3	45	.28	.72	35	.07
8	.88	50	.12	2.2	60	.60	1.1	82	.30
9	.80	35	.08	1.9	20	.10	.70	40	.08
10	.65	24	.04	1.4	18	.07	.60	50	.08
11	.58	40	.06	1.2	18	.06	.60	30	.05
12	.44	574	.68	1.2	40	.13	.60	40	.06
13	.53	75	.11	1.0	45	.12	.55	35	.05
14	.44	35	.04	.93	48	.18	.48	35	.05
15	.40	317	.34	2.9	117	1.0	.48	18	.02
16	.36	65	.06	2.1	24	.14	.55	40	.06
17	.40	40	.04	1.6	20	.09	3.3	455	12
18	.40	36	.04	1.2	15	.05	1.2	40	.13
19	.44	95	.11	.72	371	.72	.88	80	.19
20	.40	20	.02	.90	113	.32	.72	40	.08
21	.36	15	.01	1.4	171	.85	.70	40	.08
22	3.3	493	10	1.2	85	.30	.65	40	.07
23	1.6	60	.26	1.2	40	.13	.65	35	.06
24	1.0	50	.14	1.0	40	.11	.60	25	.04
25	.80	35	.08	.88	35	.08	.75	56	.22
26	.80	55	.12	.88	35	.08	1.3	36	.16
27	2.9	208	2.2	.60	40	.06	.72	15	.03
28	2.7	120	1.3	.64	120	.24	.60	30	.05
29	5.7	180	4.1	--	--	--	.53	24	.03
30	1.9	30	.15	--	--	--	.72	24	.05
31	1.8	24	.12	--	--	--	.75	39	.19
TOTAL	43.98	--	25.21	55.85	--	35.73	24.76	--	14.95

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.1	150	2.3	1.2	18	.06	1.2	40	.13
2	3.2	30	.26	1.2	18	.11	.85	40	.09
3	1.9	18	.09	1.7	79	.52	.70	50	.09
4	8.3	514	28	1.1	14	.04	.70	110	.21
5	3.7	37	.37	.80	15	.03	.58	60	.09
6	2.4	25	.16	.70	30	.06	.53	50	.07
7	1.9	18	.09	.65	50	.09	.53	80	.11
8	6.3	207	5.5	.68	30	.06	.48	80	.10
9	2.7	25	.18	1.8	139	1.0	.44	80	.10
10	5.1	92	2.0	.90	30	.07	.36	100	.10
11	2.6	15	.11	.87	65	.17	.32	70	.06
12	2.2	10	.06	.72	25	.10	.42	343	.64
13	1.7	22	.10	.65	30	.05	.40	58	.06
14	1.2	21	.07	.58	35	.05	.23	120	.07
15	1.1	16	.05	.58	40	.06	.14	90	.03
16	1.0	14	.04	.58	45	.07	.57	427	2.9
17	1.1	9	.03	.77	78	.19	.58	146	.36
18	1.0	9	.02	.72	30	.06	.58	71	.11
19	.90	9	.02	.58	40	.06	.58	40	.06
20	.65	30	.05	2.5	179	1.9	.44	30	.04
21	.58	10	.02	1.1	30	.09	.82	315	4.7
22	.55	10	.01	.65	30	.05	.70	133	.35
23	.83	37	.12	.80	50	.17	.58	40	.06
24	.88	20	.05	2.1	167	2.1	.73	217	1.1
25	2.3	145	2.7	3.4	51	.54	.53	112	.16
26	2.4	38	.25	1.7	18	.08	.44	30	.04
27	5.7	108	2.5	2.5	53	.47	.44	600	.71
28	3.0	16	.13	7.6	195	4.4	1.1	1210	13
29	1.9	100	.51	2.9	90	.70	2.3	1060	22
30	1.6	20	.09	2.2	219	1.7	.58	70	.11
31	--	--	--	1.9	70	.36	--	--	--
TOTAL	73.79	--	45.88	46.13	--	15.41	18.85	--	47.65

01570260 CONODOGUINET CREEK TRIBUTARY NO. 2B NEAR ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.58	60	.09	1.9	1100	33	.06	15	0
2	.58	270	.42	.41	290	.41	.08	12	0
3	.48	220	.29	.14	100	.04	.08	10	0
4	.24	460	.30	.11	90	.03	.08	8	0
5	.16	1200	.52	.09	75	.02	.07	8	0
6	.14	450	.17	.09	70	.02	.07	12	0
7	.12	240	.08	.09	75	.02	.07	12	0
8	.14	170	.06	.18	160	.51	.06	12	0
9	.14	150	.06	.21	325	.29	.08	31	.01
10	.11	430	.13	3.2	1280	111	.08	35	.01
11	.12	420	.14	.25	1010	.83	.05	42	.01
12	.12	240	.08	.08	120	.03	.07	40	.01
13	.12	240	.08	.15	130	.05	.07	40	.01
14	.12	180	.06	.21	450	.31	16	2370	125
15	.12	125	.04	.43	408	.66	4.7	781	12
16	.12	95	.03	.11	200	.06	.40	150	.16
17	.12	350	.11	.09	90	.02	.27	25	.02
18	.11	270	.08	.82	712	7.2	1.2	619	8.0
19	.11	380	.11	.23	450	.28	1.9	549	5.2
20	.12	310	.20	.15	500	.20	.36	400	.39
21	.17	800	.37	.14	150	.06	.16	130	.06
22	.13	250	.09	.14	170	.06	.22	80	.05
23	.11	150	.04	.13	700	.80	.38	300	.31
24	.11	88	.03	.01	150	0	.32	250	.22
25	.14	118	.07	.09	50	.01	.28	125	.09
26	.16	131	.06	.11	60	.02	.25	75	.05
27	.13	55	.02	.09	45	.01	.22	55	.03
28	.12	50	.02	.06	30	0	.04	10	0
29	.11	36	.01	.04	20	0	.10	72	.03
30	.12	36	.01	.05	25	0	.08	50	.01
31	.11	28	.01	.05	30	0	--	--	--
TOTAL	5.28	--	3.78	9.85	--	155.94	27.80	--	151.67

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 400.46
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 533.38

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
DEC.											
13...	1505	1.7	600	788	3.6	--	9	--	--	--	100
FEB.											
02...	1440	21	700	1850	105	--	41	--	--	--	96
APR.											
04...	1500	30	--	1980	160	--	40	--	--	--	93
JUNE											
21...	2248	7.4	3100	4490	90	40	55	72	85	95	98
28...	2237	9.5	5000	8980	230	33	48	64	80	92	97
SEP.											
14...	0815	8.1	5100	7840	171	60	75	88	96	99	100

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.

LOCATION.--Lat 40°18'05", long 76°56'57", Cumberland County, at gaging station on right bank at upstream side of culvert on Valley Road, 1 mile (1.6 km) northwest of Enola, and 2.3 miles (3.7 km) upstream from mouth.

DRAINAGE AREA.--0.38 mi^2 (0.98 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971 (partial-record station), October 1971 to September 1973.
Sediment records: April 1969 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum, 1,600 mg/l Sept. 14; minimum, 1 mg/l Oct. 21-22, Nov. 1.
Sediment discharges: Maximum, 98 tons (89 t) Aug. 10; minimum, 0 tons (0 t) on many days.

Period of record:
Sediment concentrations: Maximum, 1,600 mg/l Sept. 14, 1973; minimum, 0 mg/l July 23, 28, 1971.
Sediment discharges: Maximum, 98 tons (89 t) Aug. 10, 1973; minimum, 0 tons (0 t) on many days.

REMARKS.--Chemical analyses for this station on page 281.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.03	3	0	0	1	0	.30	4	0
2	.03	3	0	.17	15	.01	.73	10	.02
3	.02	3	0	.20	6	0	.75	7	.01
4	.01	3	0	.07	5	0	.59	7	.01
5	.01	3	0	.05	4	0	.55	3	0
6	.04	4	0	.05	3	0	4.0	70	2.0
7	.18	15	.02	.03	3	0	1.2	7	.02
8	.04	7	0	2.0	67	.84	2.8	16	.26
9	.03	6	0	.20	6	0	3.5	11	.11
10	.03	5	0	.11	3	0	3.5	17	.19
11	.02	4	0	.09	3	0	1.4	7	.03
12	.02	3	0	.07	5	0	1.1	4	.01
13	0	2	0	.08	7	0	1.2	3	.01
14	0	2	0	3.5	68	.97	.73	3	.01
15	0	2	0	.81	13	.02	2.8	18	.21
16	0	2	0	.20	14	.01	2.0	6	.04
17	0	2	0	.14	12	0	.64	6	.01
18	0	2	0	.11	9	0	.50	6	.01
19	.08	4	0	1.5	37	.75	.60	6	.01
20	.06	2	0	1.7	20	.18	1.1	10	.03
21	.05	1	0	.29	9	.01	1.7	21	.19
22	.05	1	0	.19	6	0	4.9	37	.64
23	.05	4	0	.14	4	0	1.6	6	.03
24	.05	4	0	.12	3	0	1.1	4	.01
25	.02	4	0	.12	3	0	.86	3	.01
26	.01	4	0	4.0	74	1.9	1.1	7	.03
27	0	4	0	.52	8	.01	.92	3	.01
28	.01	4	0	.36	6	.01	.62	4	.01
29	.05	10	0	.26	5	0	.45	3	0
30	.01	5	0	.22	5	0	.50	3	0
31	0	4	0	--	--	--	3.3	45	.76
TOTAL	.90	--	.02	17.30	--	4.71	47.04	--	4.68

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	10	.04	.53	120	.21	.34	17	.02
2	.82	8	.02	6.1	799	19	.39	20	.02
3	.80	8	.03	2.7	76	.67	.44	13	.02
4	3.4	32	.50	1.4	20	.08	.52	10	.01
5	1.3	3	.01	.99	504	1.5	.41	11	.01
6	.81	3	.01	.85	45	.10	.40	15	.02
7	.52	3	0	1.0	265	.73	.52	13	.02
8	.40	3	0	1.4	145	.78	.81	44	.09
9	.34	7	.01	.83	33	.07	.41	35	.04
10	.32	25	.02	.54	33	.05	.32	18	.02
11	.31	25	.02	.37	33	.03	.37	15	.01
12	.27	25	.02	.33	42	.04	.39	42	.04
13	.27	14	.01	.34	45	.04	.30	31	.03
14	.34	12	.01	.41	30	.06	.29	35	.03
15	.31	21	.02	2.1	197	1.5	.26	24	.02
16	.30	109	.09	.99	30	.08	.34	52	.07
17	.27	50	.04	.72	25	.05	2.6	370	6.3
18	.25	40	.03	.64	20	.03	.80	25	.05
19	.32	40	.03	.47	13	.02	.54	71	.10
20	.28	22	.02	.53	15	.02	.42	17	.02
21	.21	10	.01	.97	75	.32	.35	20	.02
22	2.5	385	7.2	.84	47	.12	.32	18	.02
23	1.2	78	.25	.58	17	.03	.28	20	.02
24	.60	14	.02	.48	10	.01	.26	9	.01
25	.43	12	.01	.39	9	.01	.46	58	.24
26	.42	9	.01	.42	18	.02	.89	36	.12
27	2.1	118	1.1	.36	9	.01	.37	23	.02
28	2.1	68	.84	.35	15	.01	.28	9	.01
29	4.0	126	2.1	--	--	--	.25	19	.01
30	.92	30	.07	--	--	--	.47	27	.04
31	.71	764	1.7	--	--	--	.57	44	.24
TOTAL	28.22	--	14.24	27.63	--	25.59	15.37	--	7.69

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.9	162	2.0	.62	45	.08	.52	35	.04
2	2.0	42	.28	.57	42	.10	.38	12	.01
3	.98	15	.04	1.3	107	.80	.32	10	.01
4	5.9	404	18	.67	13	.02	.33	47	.06
5	2.0	54	.30	.46	10	.01	.26	45	.04
6	1.2	9	.03	.35	10	.01	.22	40	.03
7	1.0	32	.13	.30	23	.02	.19	69	.07
8	4.9	160	3.4	.37	18	.02	.14	175	.07
9	1.5	54	.22	1.8	260	2.7	.13	32	.01
10	3.7	93	1.9	.63	32	.05	.12	20	.01
11	1.3	9	.03	.62	835	1.3	.11	65	.02
12	.95	65	.12	.40	30	.03	.18	348	.51
13	.74	65	.12	.31	15	.01	.15	136	.06
14	.60	14	.02	.28	34	.03	.11	620	.23
15	.51	14	.02	.30	16	.01	.09	108	.03
16	.46	19	.02	.26	10	.01	.33	518	2.5
17	.55	13	.02	.49	56	.10	.38	590	2.7
18	.50	14	.02	.45	15	.02	.22	58	.04
19	.39	12	.01	.23	10	.01	.14	50	.02
20	.31	15	.01	2.3	233	3.0	.10	303	.08
21	.28	12	.01	.66	13	.02	.49	752	7.0
22	.27	8	.01	.35	25	.02	.49	463	.90
23	.55	68	.17	.44	22	.05	.14	51	.02
24	.41	20	.02	1.9	206	2.9	.21	629	1.5
25	1.8	195	3.3	2.4	44	.33	.14	100	.04
26	1.6	34	.18	.99	14	.04	.10	50	.01
27	4.2	159	3.3	1.9	139	1.5	.10	48	.01
28	1.8	14	.07	4.9	230	4.3	.51	748	12
29	1.0	8	.02	1.5	18	.07	1.3	259	3.2
30	.75	40	.08	.94	35	.12	.14	59	.02
31	--	--	--	.83	118	.21	--	--	--
TOTAL	46.05	--	33.85	29.52	--	17.89	8.04	--	31.24

01570300 CONODOGUINET CREEK TRIBUTARY NO. 3 AT ENOLA, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.10	30	.01	1.5	1040	26	.03	15	0
2	.09	35	.01	.28	70	.05	.04	20	0
3	.10	65	.02	.08	50	.01	.03	15	0
4	.09	50	.01	.04	45	0	.04	15	0
5	.08	40	.01	.03	45	0	.04	15	0
6	.06	40	.01	.03	42	0	.04	15	0
7	.06	30	0	.06	100	.02	.03	15	0
8	.06	35	.01	.04	674	2.7	.03	17	0
9	.05	48	.01	.18	120	.03	.03	19	0
10	.05	28	0	4.1	761	98	.03	15	0
11	.06	25	0	.27	100	.06	.03	20	0
12	.05	30	0	.09	50	.01	.02	20	0
13	.04	35	0	.12	27	.01	.03	20	0
14	.04	35	0	.25	812	2.6	13	1600	87
15	.05	20	0	.40	650	5.0	.53	40	.05
16	.04	19	0	.09	22	.01	.14	18	.01
17	.04	30	0	.06	39	.01	.10	15	0
18	.04	40	0	.72	768	15	1.4	437	13
19	.03	32	0	.32	232	.48	.16	22	.01
20	.16	986	4.7	.11	35	.01	.11	16	0
21	.14	240	.11	.09	27	.01	.09	12	0
22	.06	60	.01	.07	22	0	.09	8	0
23	.05	75	.01	.06	17	0	.35	332	1.2
24	.05	42	.01	.06	15	0	.09	13	0
25	.05	182	.05	.05	15	0	.08	13	0
26	.06	70	.01	.05	16	0	.07	13	0
27	.04	50	.01	.05	16	0	.07	12	0
28	.03	55	0	.04	15	0	.05	12	0
29	.03	40	0	.03	14	0	.12	63	.04
30	.03	70	.01	.03	13	0	.08	30	.01
31	.03	70	.01	.03	13	0	--	--	--
TOTAL	1.86	--	5.02	9.33	--	150.01	16.95	--	101.32

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 248.21
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 396.26

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (JTU)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
JAN.											
31...	1645	.85	10000	13100	30	--	74	--	--	--	100
FEB.											
02...	1412	16	1100	2580	111	--	44	--	--	--	94
05...	1300	1.1	9500	13000	39	--	77	--	--	--	100
APR.											
04...	1533	22	--	1130	67	--	49	--	--	--	95
MAY											
03...	1023	2.3	17000	20500	127	48	62	77	91	99	100
JUNE											
16...	1615	1.8	2400	3266	16	61	78	92	98	100	100
17...	1305	2.3	2500	4240	26	56	74	92	97	99	100
21...	2243	5.2	3700	4980	70	58	76	90	97	98	100
28...	2224	5.8	4700	7030	110	59	76	89	97	98	100
SEP.											
18...	0717	19	6000	12100	631	45	59	76	91	97	99

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.
(International Hydrological Decade Station)

LOCATION.--Lat 40°15'27", long 76°53'12", Dauphin County, at Walnut Street Bridge in Harrisburg, 3,700 ft (1,128 m) upstream from gaging station.

DRAINAGE AREA.--24,100 mi^2 (62,400 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1944 to January 1953, March to July 1956, October 1956 to September 1973.
Sediment records: October 1963 to September 1968, April 1970 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 520 mg/l Mar. 20; minimum daily, 3 mg/l Oct. 1-2.
Sediment discharges: Maximum daily, 240,000 tons (218,000 t) Feb. 5; minimum daily, 51 tons (46 t)Oct. 1-2.

Period of record:
Sediment concentrations: Maximum daily, 879 mg/l June 23, 1972; minimum daily, 0 mg/l on many days during August and September 1964.
Sediment discharges: Maximum daily, 2,210,000 tons (2,000,000 t) June 24, 1972; minimum daily, 0 tons (0 t) on many days during August and September 1964.

REMARKS.--Chemical analyses for this station on page 283.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6280	3	51	6780	9	165	63600	35	6010
2	6280	3	51	7040	7	133	54900	20	2960
3	6280	4	68	7460	9	181	49200	18	2390
4	6520	5	88	8450	10	228	46400	16	2000
5	6650	5	90	9650	12	313	46700	15	1890
6	6650	4	72	13600	15	551	50600	26	3550
7	7040	4	76	16200	18	787	98600	100	26600
8	7180	6	116	18600	20	1000	177000	265	127000
9	7320	6	119	28200	92	7000	195000	320	168000
10	7880	4	85	82300	335	74400	181000	220	108000
11	7740	5	104	104000	365	102000	165000	100	44600
12	7880	7	149	80200	230	49800	140000	55	20800
13	8750	6	142	61000	125	20600	118000	35	11200
14	8160	6	132	52500	63	8930	101000	27	7360
15	7600	6	123	73700	82	16300	88300	25	5960
16	7040	5	95	127000	145	49700	84800	22	5040
17	6520	5	88	114000	190	58500	79300	20	4280
18	6280	7	119	82000	135	29900	65800	18	3200
19	6400	8	138	62600	80	13500	56600	16	2450
20	6150	7	116	54100	40	5840	49500	15	2000
21	6020	8	130	52200	34	4790	48300	14	1830
22	5900	7	112	50600	25	3420	60400	30	4890
23	5900	6	96	47800	20	2580	118000	150	47800
24	5650	6	92	43400	15	1760	157000	240	102000
25	5540	5	75	37700	14	1430	144000	210	81600
26	5780	5	78	38000	19	1950	118000	110	35000
27	5900	5	80	53600	45	6510	103000	60	16700
28	6020	5	81	67800	65	11900	92400	40	9980
29	6280	7	119	77100	80	16700	83500	34	7670
30	6280	7	119	74600	50	10100	71400	30	5780
31	6400	8	138	--	--	--	63000	25	4250
TOTAL	206270	--	3142	1552180	--	500968	2970300	--	872790

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	61000	23	3790	47000	26	3300	18600	7	352
2	64800	26	4550	46100	24	2990	18200	8	393
3	76700	55	11400	95900	160	41400	18400	8	397
4	85800	80	18500	189000	350	179000	19600	11	582
5	82600	65	14500	189000	470	240000	27000	20	1460
6	74600	40	8060	134000	300	109000	44200	63	7520
7	65000	30	5270	102000	50	13800	57900	93	14500
8	53000	26	3720	81500	33	7260	58700	80	12700
9	43000	24	2790	70900	24	4590	63300	55	9400
10	35000	20	1890	62800	18	3050	64300	45	7810
11	30000	16	1300	52000	14	1970	63000	40	6800
12	24000	14	907	44000	12	1430	59700	36	5800
13	22000	45	2670	38000	10	1030	54400	33	4850
14	23000	120	7450	34900	10	942	50600	30	4100
15	25000	135	9110	32600	10	880	48900	27	3560
16	26000	105	7370	31800	8	687	53900	30	4370
17	27000	110	8020	29000	8	626	80400	120	26000
18	27000	60	4370	26600	9	646	116000	250	78300
19	25000	45	3040	24200	10	653	152000	340	140000
20	23000	40	2480	22000	8	475	143000	520	201000
21	23000	38	2360	21600	8	467	108000	300	87500
22	24700	35	2330	22200	10	599	87100	75	17600
23	31000	40	3350	23800	12	771	71600	40	7730
24	45600	70	8620	23300	11	692	60200	36	5850
25	50300	80	10900	22200	10	599	52500	32	4540
26	49500	55	7350	20900	8	451	48100	25	3250
27	46100	40	4980	20100	8	434	46700	20	2520
28	46400	35	4380	19400	6	314	46100	13	1620
29	54400	45	6610	--	--	--	45600	10	1230
30	57600	35	5440	--	--	--	43400	10	1170
31	53000	30	4290	--	--	--	39600	10	1070
TOTAL	1375100	--	181797	1526800	--	618056	1861000	--	663974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	38300	12	1240	62000	55	9210	61300	27	4470
2	47200	26	3310	55800	44	6630	53000	20	2860
3	62000	75	12600	51100	36	4970	47200	16	2040
4	88500	110	26300	48100	27	3510	42600	14	1610
5	138000	165	61500	43700	20	2360	39100	10	1060
6	159000	175	75100	41200	17	1890	38300	12	1240
7	153000	195	80600	38800	18	1890	43700	30	3540
8	126000	170	57800	35700	16	1540	49500	85	11400
9	118000	85	27100	34400	15	1390	46900	64	8100
10	108000	55	16000	35900	13	1260	42000	31	3520
11	108000	62	18100	40200	16	1740	36700	20	1980
12	102000	45	12400	53300	25	3600	31600	18	1540
13	94000	35	8880	60500	35	5720	28300	15	1150
14	82600	33	7360	61800	41	6840	26600	18	1290
15	70700	30	5730	57100	33	5090	25900	20	1400
16	60500	27	4410	52000	26	3650	25900	22	1540
17	53000	22	3150	49200	15	1990	25900	19	1330
18	46400	18	2260	48100	11	1430	24900	15	1010
19	42900	15	1740	46700	9	1130	23100	12	748
20	39900	13	1400	46100	11	1370	21600	14	816
21	37200	12	1210	49500	14	1870	20300	18	987
22	34900	12	1130	59200	31	4960	21100	22	1250
23	33100	10	894	69700	60	11300	23100	26	1620
24	32300	13	1130	74400	65	13100	23300	28	1760
25	32300	12	1050	69200	42	7850	24000	30	1940
26	32800	10	886	65000	27	4740	24200	24	1570
27	34900	14	1320	60700	18	2950	23800	20	1290
28	45300	27	3300	58100	20	3140	20700	18	1010
29	54400	45	6610	65300	25	4410	22000	28	1660
30	61300	60	9930	69500	33	6190	34500	68	6330
31	--	--	--	68000	36	6610	--	--	--
TOTAL	2136500	--	454440	1670300	--	134330	971100	--	72061

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	45800	127	15700	13300	6	215	8160	5	110
2	38000	92	9440	13100	6	212	7740	8	167
3	39900	84	9050	12800	10	346	7460	8	161
4	37700	67	6820	13100	12	424	7740	7	146
5	33800	35	3190	12900	12	418	7600	10	205
6	30800	15	1250	12200	13	428	7320	8	158
7	27100	12	878	11700	12	379	7040	9	171
8	23100	9	561	10600	14	401	8160	12	264
9	20500	7	387	9500	12	308	9200	10	248
10	18600	6	301	9050	10	244	8900	10	240
11	16800	8	363	8900	10	240	8600	8	186
12	14500	9	352	8750	13	307	8300	6	134
13	13600	6	220	8750	11	260	7460	6	121
14	12200	5	165	8450	10	228	9540	17	438
15	11900	5	161	8300	9	202	18300	55	2720
16	11700	5	158	8450	12	274	24700	78	5200
17	11400	7	215	13200	34	1210	19200	46	2380
18	12900	10	348	15700	35	1480	21500	36	2090
19	13500	14	510	15100	22	897	29800	41	3300
20	12400	12	402	21800	63	3710	26100	20	1410
21	11600	9	282	25400	50	3430	20700	13	727
22	10800	7	204	23100	38	2370	16600	10	448
23	12800	8	276	20500	35	1940	14700	9	357
24	13500	8	292	18800	28	1420	16000	8	346
25	14000	8	302	17800	19	913	16600	8	359
26	14000	10	378	14900	13	523	15800	10	427
27	13100	9	318	12600	9	306	15500	11	460
28	12000	9	292	11200	8	242	15300	10	413
29	13000	10	351	10100	8	218	14000	8	302
30	15100	10	408	9500	7	180	13800	7	261
31	15100	8	326	8750	5	118	--	--	--
TOTAL	591200	--	53900	408300	--	23843	411820	--	23949

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	15680870
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	3603250

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SUSQUEHANNA RIVER BASIN

01545600 YOUNG WOMANS CREEK NEAR RENOVO, PA. (LAT 41 23 22, LONG 077 41 28)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 12...	1200	6.6	0	.00
DEC. 29...	0945	155	3	1.3
FEB. 28...	1230	26	0	.00
APR. 24...	1420	59	2	.32

03020500 OIL CREEK AT ROUSEVILLE, PA.

LOCATION.--Lat 41°28'54", long 79°41'44", Venango County, on right bank 100 ft (30 m) downstream from bridge on State Highway 8, about 300 ft (91 m) upstream from Cherrytree Run, and 1 mile (1.6 km) north of Rouseville.

DRAINAGE AREA.--300 mi^2 (777 km^2), including that of Cherrytree Run.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), November 1970 to September 1973.
Water temperatures: November 1970 to September 1972 (discontinued).
Sediment records: Water year 1970 (partial-record station), October 1970 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 290 mg/l Mar. 15; minimum daily, 1 mg/l Oct. 17, Feb. 25-26.
Sediment discharges: Maximum daily, 3,930 tons (3,560 t) Mar. 15; minimum daily, 0.32 tons (0.29 t) Sept. 22.

Period of record:
Sediment concentrations: Maximum daily, 350 mg/l Mar. 2, 1972; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 8,530 tons (7,740 t) June 23, 1972; minimum daily, 0.23 tons (0.29 t) Nov. 2, 4, 1971.

REMARKS.--Chemical analyses for this station on page 289.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	418	24	27	210	--	--	524	--	--
2	250	9	6.1	649	--	--	509	--	--
3	179	5	2.4	2530	--	--	520	--	--
4	149	4	1.6	1130	--	--	702	--	--
5	129	3	1.0	728	6	12	1660	--	--
6	177	23	11	586	5	7.9	3680	--	--
7	1450	123	482	476	5	6.4	3510	--	--
8	634	63	108	695	10	19	1510	--	--
9	369	17	17	1100	--	--	1250	--	--
10	248	4	2.7	758	--	--	1140	--	--
11	195	2	1.1	617	--	--	892	--	--
12	179	3	1.4	567	--	--	737	--	--
13	177	3	1.4	499	--	--	1440	--	--
14	168	2	.91	2960	--	--	1300	--	--
15	152	2	.82	3130	--	--	903	--	--
16	142	2	.77	1440	--	--	796	--	--
17	135	1	.36	976	--	--	592	--	--
18	130	3	1.1	787	--	--	647	--	--
19	127	6	2.1	695	--	--	655	--	--
20	136	4	1.5	674	--	--	659	--	--
21	131	3	1.1	626	--	--	762	--	--
22	133	3	1.1	570	--	--	1550	--	--
23	165	3	1.3	521	--	--	2030	--	--
24	324	7	6.1	474	--	--	1760	--	--
25	275	--	--	433	--	--	1530	--	--
26	226	--	--	617	--	--	1310	--	--
27	194	--	--	838	--	--	1120	--	--
28	176	--	--	682	--	--	867	--	--
29	194	--	--	605	--	--	717	--	--
30	298	--	--	539	--	--	643	--	--
31	253	--	--	--	--	--	762	--	--
TOTAL	7913	--	679.86	27112	--	45.3	36677	--	--

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1320	--	--	532	3	4.3	242	3	2.0
2	871	--	--	1590	80	343	308	3	2.5
3	645	--	--	2460	37	246	664	5	9.0
4	1670	--	--	1460	3	12	2230	80	482
5	1490	--	--	1000	4	11	1920	38	197
6	908	52	127	797	4	8.6	1500	16	65
7	626	33	56	744	4	8.0	1070	10	29
8	514	12	17	744	5	10	914	9	22
9	450	4	4.9	650	5	8.8	731	6	12
10	420	3	3.4	536	4	5.8	646	4	7.0
11	380	2	2.1	450	4	4.9	597	4	6.4
12	360	3	2.9	416	5	5.6	693	8	15
13	340	3	2.8	421	5	5.7	643	7	12
14	330	3	2.7	417	4	4.5	905	27	66
15	320	4	3.5	416	3	3.4	5020	290	3930
16	310	3	2.5	370	3	3.0	2310	30	187
17	300	3	2.4	290	3	2.3	2310	56	349
18	349	6	5.7	310	2	1.7	2690	32	232
19	466	14	18	330	3	2.7	1620	11	48
20	901	34	83	310	3	2.5	1300	8	28
21	438	10	12	300	3	2.4	1130	7	21
22	714	15	29	299	3	2.4	962	4	10
23	1500	34	138	287	2	1.5	827	2	4.5
24	919	8	20	273	2	1.5	925	6	15
25	623	4	6.7	243	1	.66	1150	5	16
26	641	3	5.2	257	1	.69	1570	7	30
27	659	3	5.3	232	2	1.3	1230	6	20
28	736	3	6.0	225	2	1.2	870	6	14
29	861	6	14	--	--	--	729	5	9.8
30	610	3	4.9	--	--	--	685	5	9.2
31	588	3	4.8	--	--	--	658	6	11
TOTAL	21259	--	579.8	16359	--	705.45	39049	--	5861.4

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	633	7	12	599	8	13	502	8	11
2	759	11	23	534	8	12	514	9	12
3	716	7	14	590	8	13	568	10	15
4	874	14	33	665	8	14	2920	42	331
5	2190	51	302	683	13	24	2690	75	545
6	1450	15	59	562	10	15	1040	15	42
7	1030	7	19	480	6	7.6	880	13	31
8	870	5	12	434	4	4.7	646	12	21
9	776	5	10	1050	42	119	480	8	10
10	717	4	7.7	1760	51	242	404	7	7.6
11	694	3	5.6	2080	49	275	348	8	7.5
12	641	3	5.2	1420	28	107	324	9	7.9
13	593	4	6.4	1040	17	48	526	18	26
14	522	4	5.6	779	10	21	475	12	15
15	472	3	3.8	640	6	10	316	10	8.5
16	438	4	4.7	616	6	10	288	7	5.4
17	439	5	5.9	550	5	7.4	356	8	7.7
18	539	7	10	496	5	6.7	404	8	8.7
19	712	10	19	424	5	5.7	316	6	5.1
20	550	7	10	706	16	30	260	4	2.8
21	477	5	6.4	1180	21	67	356	11	11
22	434	6	7.0	700	13	25	360	16	16
23	422	6	6.8	574	12	19	252	7	4.8
24	391	5	5.3	688	19	35	226	7	4.3
25	348	3	2.8	586	9	14	216	5	2.9
26	320	5	4.3	475	5	6.4	181	4	2.0
27	351	6	5.7	424	6	6.9	161	4	1.7
28	1180	18	57	960	35	91	155	4	1.7
29	1120	13	39	1080	31	90	174	5	2.3
30	789	10	19	751	18	36	155	4	1.7
31	--	--	--	616	11	18	--	--	--
TOTAL	21367	--	721.2	24142	--	1393.6	16493	--	1168.6

03020500 OIL CREEK AT ROUSEVILLE, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	135	4	1.5	103	11	3.1	65	8	1.4
2	125	5	1.7	107	11	3.2	65	10	1.8
3	135	8	2.9	87	9	2.1	63	8	1.4
4	164	13	5.8	77	7	1.5	62	7	1.2
5	125	10	3.4	69	8	1.5	66	7	1.2
6	111	8	2.4	66	6	1.1	170	21	9.6
7	105	8	2.3	65	7	1.2	256	24	17
8	99	7	1.9	62	8	1.3	115	8	2.5
9	95	8	2.1	59	9	1.4	89	6	1.4
10	91	9	2.2	81	14	3.1	75	5	1.0
11	91	7	1.7	77	10	2.1	68	4	.73
12	89	7	1.7	71	9	1.7	65	4	.70
13	87	10	2.3	66	11	2.0	62	4	.67
14	89	11	2.6	65	10	1.8	60	5	.81
15	149	16	6.4	103	12	3.3	59	5	.80
16	103	9	2.5	89	8	1.9	56	5	.76
17	89	6	1.4	81	4	.87	54	4	.58
18	81	8	1.7	138	9	3.4	57	3	.46
19	79	9	1.9	118	6	1.9	60	3	.49
20	79	10	2.1	107	4	1.2	59	3	.48
21	128	10	3.5	808	145	316	59	3	.48
22	118	11	3.5	408	56	62	59	2	.32
23	91	10	2.5	209	28	16	97	9	2.4
24	79	8	1.7	138	12	4.5	123	8	2.7
25	77	8	1.7	111	9	2.7	81	2	.44
26	146	18	7.1	97	11	2.9	69	3	.56
27	109	11	3.2	87	9	2.1	63	3	.51
28	111	9	2.7	81	9	2.0	69	3	.56
29	101	8	2.2	74	8	1.6	115	3	.93
30	85	8	1.8	69	7	1.3	174	4	1.9
31	77	9	1.9	66	6	1.1	--	--	--
TOTAL	3243	--	82.3	3839	--	451.87	2535	--	55.78

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	219988
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	11745.16

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
FEB.												
02...	1630	2350	5.0	108	685	41	51	74	89	96	99	100

03029500 CLARION RIVER AT COOKSBURG, PA.

LOCATION.--Lat 41°19'50", long 79°12'33", Jefferson County, at gaging station on left bank at downstream side of bridge on State Highway 36 at Cooksburg, 300 ft (91 m) downstream from Toms Run, and 2.7 miles (4.3 km) upstream from Cathers Run.

DRAINAGE AREA.--807 mi^2 (2,090 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1962 to September 1973.
Water temperatures: January 1971 to September 1972 (discontinued).
Sediment records: January 1971 to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 93 mg/l Nov. 3; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 2,580 tons (2,340 t) Dec. 7; minimum daily, 0.75 tons (0.68 t) Sept. 28.

Period of record:
Sediment concentrations: Maximum daily, 272 mg/l June 23, 1972; minimum daily, 1 mg/l on many days.
Sediment discharges: Maximum daily, 31,700 tons (28,800 t) June 23, 1972; minimum daily, 0.70 tons (0.64 t) Sept. 12, 1972.

REMARKS.--Chemical analyses for this station on page 290. Unpublished records of specific conductance and water temperature of sediment samples available at district office in Harrisburg.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	791	6	13	480	1	1.3	1530	3	12
2	560	5	7.6	882	17	40	1540	2	8.3
3	435	4	4.7	3970	93	997	1470	2	7.9
4	383	2	2.1	2840	60	460	1650	2	8.9
5	347	1	.94	1940	7	37	2820	17	129
6	363	1	.98	1550	4	17	6470	92	1610
7	672	5	9.1	1290	4	14	12400	77	2580
8	966	5	13	1570	14	59	6570	10	177
9	525	4	5.7	2680	18	130	3760	5	51
10	439	3	3.6	1920	9	47	4350	7	82
11	387	2	2.1	1730	5	23	3590	6	58
12	363	2	2.0	1670	4	18	3010	9	73
13	359	2	1.9	1440	3	12	3360	13	118
14	359	2	1.9	5840	70	1100	3710	12	120
15	343	2	1.9	8700	45	1060	3080	7	58
16	327	1	.88	5160	25	348	3220	10	87
17	319	1	.86	3820	6	62	3570	16	154
18	315	1	.85	3050	4	33	2140	7	40
19	312	1	.84	2460	5	33	2000	5	27
20	308	1	.83	2250	3	18	1830	4	20
21	305	1	.82	2010	2	11	1820	8	39
22	305	1	.82	1750	1	4.7	3100	37	310
23	339	2	1.8	1550	1	4.2	5090	30	412
24	618	5	8.3	1390	1	3.8	4220	5	57
25	756	3	6.1	1280	1	3.5	3590	4	39
26	545	1	1.5	1740	28	132	3350	4	36
27	471	1	1.3	2630	11	78	3240	3	26
28	435	1	1.2	2050	9	50	2870	3	23
29	427	1	1.2	1790	4	19	2480	2	13
30	520	1	1.4	1630	3	13	2160	2	12
31	560	1	1.5	--	--	--	2090	2	11
TOTAL	14154	--	100.72	73062	--	4828.5	106080	--	6399.1

03029500 CLARION RIVER AT COOKSBURG, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2190	2	12	1140	5	15	521	2	2.8
2	2160	2	12	1240	6	20	554	2	3.0
3	1870	2	10	4330	35	409	724	3	5.9
4	2460	60	399	3960	22	235	1430	8	31
5	3600	92	894	3000	15	122	2480	24	161
6	2890	18	140	2530	11	75	2950	27	215
7	2350	13	82	2160	9	52	3000	21	170
8	1920	4	21	1930	6	31	2830	12	92
9	1500	3	12	1960	7	37	2760	13	97
10	1200	3	9.7	1750	8	38	2300	11	68
11	1000	3	8.1	1410	6	23	2070	12	67
12	1100	2	5.9	1240	5	17	2000	9	49
13	950	2	5.1	1040	5	14	1930	5	26
14	900	2	4.9	1040	4	11	1800	7	34
15	850	1	2.3	1070	3	8.7	4560	53	653
16	800	2	4.3	1030	3	8.3	5970	28	451
17	780	2	4.2	930	3	7.5	8570	49	1130
18	750	3	6.1	561	2	3.0	11300	42	1280
19	800	3	6.5	584	2	3.2	7250	20	392
20	750	3	6.1	789	3	6.4	5260	19	270
21	900	3	7.3	857	3	6.9	4330	14	164
22	1300	3	11	767	2	4.1	3760	12	122
23	1200	3	9.7	626	2	3.4	3220	7	61
24	1100	9	27	620	2	3.3	2840	7	54
25	1000	11	30	600	4	6.5	2580	8	56
26	955	4	10	620	7	12	2420	7	46
27	898	5	12	559	4	6.0	2590	7	49
28	1040	7	20	516	3	4.2	2360	6	38
29	1260	5	17	--	--	--	2110	5	28
30	1300	5	18	--	--	--	1900	4	21
31	1070	5	14	--	--	--	1780	4	19
TOTAL	42843	--	1821.2	38859	--	1182.5	100149	--	5855.7

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1700	4	18	2200	7	42	1440	2	7.8
2	1640	4	18	1960	6	32	1280	2	6.9
3	1650	4	18	1810	6	29	1240	2	6.7
4	1630	4	18	1800	6	29	1510	22	90
5	2660	27	194	1790	4	19	3100	48	402
6	3180	17	146	1740	4	19	2360	31	198
7	2700	9	66	1560	4	17	2160	26	152
8	2720	8	59	1380	4	15	1880	24	122
9	2620	7	50	1510	6	24	1560	20	84
10	2620	6	42	2280	11	68	1400	16	60
11	2620	6	42	3180	21	180	1210	10	33
12	2610	6	42	3450	24	224	1070	7	20
13	2420	6	39	3340	11	99	2070	18	101
14	2180	5	29	3030	7	57	1940	15	79
15	1960	5	26	2650	6	43	1340	20	72
16	1790	5	24	2470	5	33	1140	18	55
17	1650	4	18	2220	4	24	1230	16	53
18	1540	5	21	2060	4	22	1540	16	67
19	1560	4	17	1870	4	20	1390	15	56
20	1500	4	16	1760	5	24	1140	14	43
21	1460	3	12	2330	5	31	1040	12	34
22	1290	3	10	2190	5	30	1830	34	168
23	1230	3	10	1870	4	20	1670	34	153
24	1230	2	6.6	1700	3	14	1370	32	118
25	1220	2	6.6	1640	2	8.9	1290	23	80
26	1120	2	6.0	1540	3	12	1150	16	50
27	1120	3	9.1	1410	3	11	963	11	29
28	1730	4	19	1350	4	15	1750	50	236
29	2610	8	56	1580	4	17	2750	78	579
30	2340	7	44	1620	3	13	1990	54	290
31	--	--	--	1500	3	12	--	--	--
TOTAL	58300	--	1082.3	62790	--	1203.9	47803	--	3445.4

03029500 CLARION RIVER AT COOKSBURG, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1480	29	116	431	2	2.3	425	5	5.7
2	1230	17	56	477	2	2.6	414	4	4.5
3	1070	14	40	473	3	3.8	421	5	5.7
4	1010	11	30	422	2	2.3	403	4	4.4
5	920	9	22	403	2	2.2	396	5	5.3
6	814	8	18	381	2	2.1	395	4	4.3
7	731	8	16	367	2	2.0	496	9	12
8	665	9	16	359	2	1.9	502	4	5.4
9	613	7	12	352	2	1.9	418	3	3.4
10	568	4	6.1	344	2	1.9	381	3	3.1
11	458	4	4.9	504	8	11	367	4	4.0
12	429	4	4.6	525	4	5.7	358	4	3.9
13	357	3	2.9	430	3	3.5	351	2	1.9
14	388	2	2.1	411	2	2.2	338	2	1.8
15	493	11	15	859	28	65	327	1	.88
16	1020	10	28	1360	50	184	336	2	1.8
17	606	4	6.5	762	8	16	330	2	1.8
18	476	3	3.9	599	4	6.5	326	2	1.8
19	428	3	3.5	1700	52	239	407	4	4.4
20	407	4	4.4	1540	74	308	395	2	2.1
21	456	3	3.7	1240	45	151	339	1	.92
22	872	7	16	1190	17	55	312	1	.84
23	589	2	3.2	1020	6	17	310	2	1.7
24	466	2	2.5	815	4	8.8	353	6	5.7
25	422	2	2.3	709	4	7.7	325	2	1.8
26	410	1	1.1	632	5	8.5	300	1	.81
27	547	3	4.4	568	4	6.1	291	1	.79
28	823	5	11	532	3	4.3	278	1	.75
29	542	3	4.4	497	2	2.7	311	1	.84
30	506	2	2.7	463	2	2.5	358	1	.97
31	455	3	3.7	441	3	3.6	--	--	--
TOTAL	20251	--	462.9	20806	--	1131.1	10963	--	93.30

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	596060
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	27606.62

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.

LOCATION.--Lat 40°24'19", long 79°52'53", Allegheny County, at Rankin Bridge, 1.7 miles (2.7 km) downstream from gaging station.

DRAINAGE AREA.--7,340 mi^2 (19,000 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1973.
Water temperatures: January to September 1973.
Sediment records: January to September 1973.

EXTREMES.--1972-73:
Sediment concentrations: Maximum daily, 221 mg/l Feb. 4; minimum daily, 6 mg/l Mar. 31, May 24, Sept. 6.
Sediment discharges: Maximum daily, 23,900 tons (21,700 t) Feb. 4; minimum daily, 40 tons (36 t) Sept. 1, 5.

Period of record:
Sediment concentrations: Maximum daily, 221 mg/l Feb. 4, 1973; minimum daily, 6 mg/l Mar. 31, May 24, Sept. 6, 1973.
Sediment discharges: Maximum daily, 23,900 tons (21,700 t) Feb. 4, 1973; minimum daily, 40 tons (36 t) Sept. 1, 5, 1973.

REMARKS.--Chemical analyses for this station on page 304. Operated as part of the USGS-EPA surveillance network.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11000	--	--	22000	55	3270	12200	22	725
2	9720	--	--	22500	35	2130	12200	14	461
3	10800	--	--	46200	188	23500	12700	13	446
4	15600	--	--	40000	221	23900	20600	16	890
5	16900	--	--	26300	192	13600	24300	32	2100
6	14600	--	--	23500	58	3680	22600	30	1830
7	11800	--	--	23000	50	3110	20900	26	1470
8	10100	--	--	19600	31	1640	17600	30	1430
9	9000	--	--	23400	26	1640	16400	44	1950
10	9000	--	--	23500	30	1900	15000	27	1090
11	8640	--	--	18500	46	2300	12400	10	335
12	6850	--	--	14900	31	1250	12000	11	356
13	5130	--	--	12700	25	857	8760	10	237
14	3650	--	--	12000	21	680	10100	13	355
15	4950	--	--	21100	19	1080	9660	11	287
16	5600	--	--	22500	19	1150	9240	30	748
17	6700	11	199	16500	23	1020	20600	40	2220
18	6800	14	257	12000	25	810	27000	30	2190
19	6250	14	236	10500	23	652	20700	25	1400
20	7350	14	278	13000	20	702	19200	29	1500
21	6500	14	246	12100	15	490	20000	30	1620
22	7350	13	258	12700	12	411	18100	32	1560
23	12300	11	365	10900	13	383	16000	32	1380
24	11900	9	289	8820	14	333	12400	32	1070
25	10500	10	284	8250	14	312	12300	31	1030
26	8640	11	257	8760	21	497	14100	28	1070
27	10100	12	327	11500	23	714	16500	25	1110
28	24200	18	1180	11800	27	860	15500	14	586
29	24400	42	2770	--	--	--	12100	13	425
30	20000	58	3130	--	--	--	13300	14	503
31	19500	54	2840	--	--	--	11500	6	186
TOTAL	335830	--	12916	508530	--	92871	485960	--	32560

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11200	7	212	38900	67	7040	13400	17	615
2	16700	8	361	33300	64	5750	9720	22	577
3	21000	12	680	30600	64	5290	6900	24	447
4	26900	70	5080	28600	31	2390	7650	15	310
5	38100	65	6690	24600	24	1590	9600	13	337
6	33400	45	4060	18200	29	1430	9540	16	412
7	28500	17	1310	13400	24	868	9780	24	634
8	29700	27	2170	12000	24	778	9120	21	517
9	36400	30	2950	33900	125	11400	6750	20	365
10	35100	27	2560	43000	142	16500	5550	15	225
11	37800	44	4490	31900	12	1030	5130	15	208
12	33600	49	4450	26700	95	6850	5130	14	194
13	31200	39	3290	21400	49	2830	6100	11	181
14	27100	21	1540	18600	42	2110	7350	11	218
15	23900	22	1420	15700	13	551	6300	10	170
16	24300	23	1510	12000	10	324	5130	11	152
17	23300	18	1130	10800	15	437	4030	14	152
18	22600	21	1280	9120	12	295	13200	27	962
19	22200	20	1200	8050	10	217	13100	26	920
20	18900	20	1020	7000	9	170	10400	23	646
21	13700	16	592	8150	8	176	6850	17	314
22	12700	10	343	6550	7	124	7500	44	891
23	9960	8	215	7150	7	135	6400	40	691
24	28900	13	1010	7900	6	128	4790	31	401
25	27300	28	2060	7800	7	147	5040	27	367
26	27600	34	2530	8820	10	238	4270	14	161
27	37600	32	3250	9180	12	297	3790	15	153
28	69600	28	5260	9660	12	313	4790	15	194
29	71800	100	19400	15400	8	333	3830	16	165
30	45300	106	13000	14300	7	270	3870	16	167
31	--	--	--	15100	7	285	--	--	--
TOTAL	886360	--	95063	547780	--	70296	215010	--	11746

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2540	16	110	4150	15	168	1850	8	40
2	2870	22	170	6450	13	226	1950	8	42
3	3260	25	220	6250	14	236	2270	9	55
4	2480	21	141	4510	17	207	2000	8	43
5	2960	16	128	2870	16	124	2100	7	40
6	3190	9	78	2510	7	47	3330	6	54
7	2420	11	72	3020	9	73	2930	8	63
8	2960	11	88	2180	8	47	2180	12	71
9	2130	12	69	2540	9	62	2930	12	95
10	2450	11	73	2270	14	86	2870	11	85
11	3260	10	88	2840	16	123	3510	10	95
12	3020	10	82	2270	18	110	2080	8	45
13	2130	10	58	2840	20	153	2300	9	56
14	2240	13	79	2540	24	165	2750	11	82
15	2540	14	96	4550	15	184	3400	11	101
16	1980	15	80	7350	14	278	2960	15	120
17	2450	15	99	6700	16	289	3120	17	143
18	2480	18	121	7850	20	424	5040	12	163
19	2900	16	125	5700	21	323	5040	10	136
20	2100	16	91	8350	22	496	3990	12	129
21	2750	14	104	8200	36	797	3400	10	92
22	4230	13	148	7350	44	873	3230	13	113
23	5040	12	163	5450	38	559	3120	14	118
24	3950	14	149	4750	20	257	3790	21	215
25	4150	17	190	3680	16	159	5130	17	235
26	4310	17	198	3680	18	179	4670	19	240
27	3720	19	191	3440	19	176	3120	18	152
28	2540	18	123	3990	16	172	3400	17	156
29	2930	15	119	3540	17	162	3610	17	166
30	2450	16	106	3190	13	112	4830	19	248
31	3650	17	168	2900	8	63	--	--	--
TOTAL	92080	--	3727	137910	--	7330	96900	--	3393

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	5257550
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	329902

03085000 MONONGAHELA RIVER AT BRADDOCK, PA.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
SEP.					
25...	0930	5220	18	254	85

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN

03024000 FRENCH CREEK AT UTICA, PA. (LAT 41 26 15 LONG 079 57 22)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT.				
02...	0940	1730	56	262
09...	1130	1140	21	65
13...	1035	515	9	12
16...	1050	440	5	5.9
23...	1415	405	3	3.3
25...	1035	1170	27	85
26...	1305	1280	15	52
30...	1010	913	11	27
NOV.				
03...	1025	3800	241	2470
03...	1245	3940	233	2480
03...	1410	4030	164	1780
03...	1700	4080	207	2280
04...	0940	3730	79	796
04...	1245	3680	107	1060
04...	1440	3600	88	855
04...	1640	3520	102	969
06...	1045	2500	34	230
10...	1130	3010	33	268
13...	1010	2164	21	123
17...	1040	4150	39	437
20...	1015	2740	15	111
22...	1430	2260	9	55
27...	1035	2270	13	80
30...	1030	1920	5	26
DEC.				
04...	1040	1850	6	30
06...	1400	5370	226	3280
07...	1255	6480	80	1400
07...	1505	6520	138	2430
07...	1700	6420	148	2560
08...	1010	5550	146	2190
08...	1445	5440	64	940
08...	1645	5320	67	962
09...	1015	4510	78	950
09...	1435	4430	148	1770
11...	1015	3550	23	220
18...	0950	2340	5	32
20...	1255	2460	12	80
25...	1440	4970	11	148
26...	1510	4750	7	90
29...	1105	3230	26	227
JAN.				
01...	1130	4700	67	850
04...	1145	4620	66	823
08...	1315	2180	61	359
13...	1300	1180	11	35
15...	1100	1160	9	28
18...	1335	1170	9	28
22...	1130	2850	46	354
25...	1245	2710	22	161
27...	1255	2450	18	119
30...	1245	2460	9	60
FEB.				
04...	1325	5170	93	1300
07...	1315	3120	96	809
13...	1300	1280	12	41
16...	1255	1180	11	35
19...	1135	1080	90	262
22...	1410	906	5	12
26...	1030	984	5	13
29...	1115	976	13	34
MAR.				
01...	1230	960	6	16
05...	1030	5800	233	3650
05...	1715	6240	173	2910
06...	0905	8430	99	2250
06...	1135	8340	146	3290
06...	1430	8250	80	1780
06...	1745	8140	122	2680
07...	0915	5320	100	1440
07...	1305	5120	77	1060
07...	1630	4970	21	282
12...	1010	3360	80	726
15...	0950	8360	441	9950
15...	1230	8460	367	8380
15...	1555	8580	283	6560
15...	1845	8600	135	3130
16...	0845	8360	176	3970
16...	1145	8250	150	3340
16...	1455	8120	298	6530
16...	1730	7920	343	7330
19...	1245	6420	56	971
22...	1105	4270	30	346
26...	0920	5170	45	628
29...	1010	3740	29	293
APR.				
02...	0950	3120	55	463
05...	1230	4430	66	789
09...	1000	3330	18	162
13...	1125	2180	7	41
16...	1000	1410	7	27
20...	1030	1940	11	58
23...	0900	1120	15	45
25...	0945	1000	9	24
28...	1545	2740	115	851
30...	0930	3370	50	455
MAY				
04...	1030	1940	18	94
07...	1000	3110	11	92
11...	0945	4640	109	1360
14...	1010	2760	28	209
18...	1015	1820	10	49
21...	0950	3210	66	572
25...	1030	3020	117	954
26...	1055	2390	33	213
29...	1010	2000	24	130

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN

03025000 SUGAR CREEK AT SUGARCREEK, PA. (LAT 41 25 43 LONG 079 52 48)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.				
01...	0945	376	12	12
01...	1635	310	7	5.8
07...	1125	760	38	78
07...	1600	565	25	38
11...	1645	144	2	.78
22...	1035	76	2	.41
23...	1625	108	1	.29
NOV.				
05...	1110	412	3	3.3
14...	0645	2460	81	538
26...	1115	364	4	3.9
DEC.				
03...	1035	265	1	.72
06...	1635	3290	211	1870
09...	1040	802	4	8.7
13...	1630	934	14	35
20...	1705	540	2	2.9
23...	1635	1110	7	21
JAN.				
01...	1430	575	7	11
04...	1630	1210	29	95
15...	1650	180	1	.49
22...	1615	575	32	50
23...	1650	605	15	24
28...	1240	400	5	5.4
FEB.				
02...	1605	1810	159	777
11...	1010	166	2	.90
13...	1650	307	5	4.1
24...	1450	148	1	.40
MAR.				
03...	0955	384	12	12
04...	1225	1160	52	163
07...	1725	615	10	17
15...	0625	4800	352	4560
15...	1700	1850	67	335
16...	1615	1060	18	52
17...	0855	1270	30	103
17...	1135	1580	61	260
17...	1410	2100	126	714
17...	1830	2340	103	651
24...	1725	575	4	6.2
25...	1050	690	5	9.3
27...	1640	680	4	7.3
30...	1650	452	7	8.5
APR.				
10...	1620	460	3	3.7
17...	1715	298	5	4.0
28...	1340	754	21	43
28...	2105	814	38	84
MAY				
09...	1600	690	36	67
10...	1525	1040	44	124
10...	1815	1010	40	109
12...	1615	710	13	25
20...	1115	468	20	25
20...	1750	1040	38	107
21...	2035	490	5	6.6
24...	1935	802	349	756
28...	0815	736	94	187
28...	1945	1070	74	214
JUNE				
04...	1645	1160	52	163
JULY				
15...	1025	116	23	7.2
21...	0945	94	20	5.1
AUG.				
18...	1020	54	5	.73
19...	1525	66	4	.71
19...	1755	116	23	72
20...	1010	412	106	118
SEP.				
11...	1815	52	3	.42
17...	1705	44	3	.36
30...	1645	53	4	.57

PARTICLE SIZE DISTRIBUTION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB.									
02...	1605	35	59	75	91	99	100	--	--
MAR.									
15...	0625	44	56	65	79	88	94	98	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN

03045000 LOYALHANNA CREEK AT KINGSTON, PA. (LAT 40 17 33 LONG 079 20 27)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
01...	1630	76	20	4.1
07...	1130	126	5	1.7
08...	1700	128	15	5.2
14...	1200	75	8	1.6
15...	1700	72	7	1.4
22...	1100	82	6	1.3
25...	1230	89	5	1.2
29...	1000	96	8	2.1
NOV.				
03...	1030	436	5	5.9
05...	1600	172	7	3.2
09...	1530	670	5	9.0
12...	1100	185	5	2.5
26...	1530	1140	53	163
27...	1130	796	48	103
DEC.				
16...	1000	790	16	34
17...	1600	565	9	14
23...	1100	515	5	6.9
25...	1230	--	4	2.0
26...	1300	495	5	6.7
31...	1500	262	12	8.5
JAN.				
07...	1100	270	9	6.6
13...	1300	15	19	7.7
14...	1100	96	7	1.8
18...	1230	120	18	5.8
21...	1230	89	8	1.9
25...	1130	120	22	7.1
28...	1630	615	19	32
FEB.				
04...	1200	700	20	38
05...	1030	706	11	21
11...	1100	409	6	6.6
18...	1600	400	19	20
19...	1130	468	6	7.6
25...	1600	231	5	3.1
28...	1130	205	4	2.2
MAR.				
04...	1600	600	13	21
11...	1630	280	4	3.0
15...	1300	248	6	4.0
18...	1100	450	5	6.1
26...	1630	386	15	16
APR.				
01...	1700	238	15	9.6
APR.				
08...	1700	850	40	92
15...	1800	391	5	5.3
22...	1730	210	5	2.8
25...	1130	545	8	12
26...	1200	610	8	13
29...	1600	1370	30	111
MAY				
06...	1800	252	4	2.7
13...	1800	580	6	9.4
18...	1130	301	5	4.1
20...	1630	245	3	2.0
25...	1100	490	5	6.6
26...	1400	360	5	4.9
JUNE				
03...	1730	259	4	2.8
09...	1400	142	18	6.9
10...	2030	118	13	4.1
16...	1130	67	19	3.4
17...	2030	88	13	3.1
24...	1900	60	18	2.9
26...	1130	49	11	1.4
30...	1130	44	8	.95
JULY				
01...	2030	41	15	1.7
08...	1100	29	13	1.0
15...	2000	19	14	.72
22...	1000	45	5	.61
23...	1100	29	13	1.0
26...	1100	19	5	.26
29...	1200	15	9	.36
AUG.				
05...	1730	11	8	.24
11...	1130	39	5	.53
12...	1430	11	8	.24
19...	1400	22	5	.30
25...	1230	21	4	.23
26...	1830	19	6	.31
SEP.				
03...	1730	9.8	5	.13
16...	1500	15	8	.32
21...	1800	16	7	.30
25...	1200	25	10	.68
26...	1130	18	12	.58
30...	1700	71	25	4.8

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN

03079000 CASSELMAN RIVER AT MARKLETON, PA. (LAT 39 51 35 LONG 079 13 40)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
06...	0805	624	118	199
07...	0845	2100	829	4700
08...	0745	816	88	194
13...	0750	218	17	10
14...	0815	186	10	5.0
17...	1015	118	3	1.0
19...	1745	136	6	2.2
24...	0835	152	4	1.6
25...	0815	149	4	1.6
NOV.				
02...	0845	410	67	74
03...	0815	426	57	66
05...	0945	300	14	11
09...	0645	2130	84	483
10...	0645	1320	37	132
11...	0715	984	31	82
12...	0445	832	21	47
13...	0645	720	18	35
14...	1045	2380	264	1700
15...	1415	2300	54	335
17...	0645	1120	18	54
26...	0445	1680	47	213
27...	0915	1440	28	109
DEC.				
04...	0825	992	26	70
05...	0825	2280	70	431
06...	0835	1960	33	175
07...	0915	3430	87	806
09...	0835	9510	276	7090
09...	1235	8570	186	4300
10...	1720	6530	102	1800
11...	0815	3990	38	409
12...	0845	2420	23	150
15...	0835	1440	27	105
17...	1715	1290	18	63
18...	1710	1150	25	78
19...	0835	1070	18	52
20...	0830	1290	26	90
22...	0805	5540	210	3140
23...	1720	2920	27	213
24...	1545	1980	21	112
28...	0735	2580	118	822
JAN.				
29...	1715	1490	30	121
30...	1720	1020	37	102
31...	1710	816	19	42
FEB.				
01...	0735	736	15	30
02...	0850	1690	104	474
03...	0835	4450	250	3000
04...	0735	2040	50	275
05...	0915	1480	24	96
06...	0735	1170	24	76
07...	1710	992	18	48
09...	1630	1080	26	76
11...	1045	586	17	27
12...	1710	518	19	26
13...	1715	524	19	27
14...	1710	537	15	22
15...	1710	672	22	40
16...	1635	672	20	36
18...	1720	442	14	17
20...	1715	437	17	20
21...	1710	410	21	23
22...	1715	330	17	15
24...	1715	335	18	16
27...	2115	415	26	29
28...	1845	437	34	40
MAR.				
02...	1910	968	65	170
03...	1715	2210	203	1210
04...	0725	3360	184	1670
04...	1635	2660	81	582
05...	1710	1980	41	219
06...	1710	1930	33	172
09...	1720	1220	26	86
11...	1745	920	23	57
14...	1715	672	28	51
17...	1715	1340	110	398
21...	1720	904	23	56
30...	0645	544	14	20
APR.				
01...	0725	608	17	28
01...	1855	952	108	278
02...	0810	3790	440	4500
02...	1715	2810	120	910
03...	0845	1950	51	268
03...	1735	1970	44	234
04...	1450	4630	290	3620
05...	0645	4050	121	1320
06...	0635	2380	39	251
07...	0645	1670	27	122
08...	0645	2340	66	417
08...	1445	4430	142	1700
09...	1850	2260	30	183
10...	1740	2660	39	280
11...	0645	2220	29	174
12...	0645	1800	23	112
13...	0645	1520	20	82
14...	0645	1310	18	64
16...	0945	1100	18	53
MAY				
02...	0635	1280	19	66
03...	0645	1060	17	49
04...	0645	1070	17	49
05...	0645	904	17	41
06...	0725	752	14	28
07...	2045	586	11	17
08...	0645	551	16	24
09...	0645	1550	164	686
10...	0645	1600	47	203
11...	0645	1340	36	130
12...	0645	1180	22	70
13...	0720	1080	22	64
14...	1915	832	17	38
15...	0645	768	17	35
16...	0645	672	15	27
17...	0645	579	12	19
18...	0645	551	13	19
19...	0645	494	12	16
20...	0725	442	10	12
21...	1915	459	10	12
22...	0645	415	10	11
23...	0645	370	8	8.0
24...	0645	380	9	9.2
25...	0645	512	20	28
26...	0645	448	15	18
27...	0720	442	13	16
28...	0725	688	42	78
29...	1545	1620	938	4100
30...	0645	848	32	73
31...	0645	792	26	56

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN

03079000 CASSELMAN RIVER AT MARKLETON, PA. (LAT 39 51 35 LONG 079 13 40)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE				
01...	0645	656	22	39
02...	2035	488	13	17
03...	0725	454	17	21
05...	0645	437	15	18
06...	0630	518	93	130
07...	0645	426	30	34
08...	0645	370	19	19
09...	0645	300	15	12
10...	0725	261	8	5.6
11...	1515	226	7	4.3
12...	0645	210	4	2.3
13...	0645	270	14	10
14...	0645	330	23	20
15...	0645	218	8	4.7
16...	0735	171	4	1.8
17...	0545	380	246	252
18...	0545	608	147	241
19...	0645	600	71	115
22...	0645	244	9	5.9
23...	0815	210	4	2.3
24...	0735	178	4	1.9
26...	0645	139	2	.75
27...	0645	121	3	.98
28...	0645	252	74	50
29...	0645	470	249	316
30...	0645	239	30	19
JULY				
01...	0735	156	8	3.4
02...	0845	133	4	1.4
03...	0645	110	3	.89
04...	0625	108	2	.58
05...	0645	152	10	4.1
06...	0645	115	3	.93
07...	2055	84	1	.23
08...	0725	84	1	.23
10...	0645	67	1	.18
11...	0645	88	13	3.1
12...	0645	145	14	5.5
13...	0645	86	2	.46
17...	0645	71	1	.19
21...	0645	50	1	.14
23...	1415	285	34	26
24...	0645	152	9	3.7
25...	0645	108	2	.58
26...	0645	84	1	.23
29...	0735	73	1	.20

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
AUG.				
01...	0645	75	1	.20
02...	0645	1490	455	1830
03...	0645	476	59	76
05...	0735	175	10	4.7
07...	0645	648	93	163
08...	0630	167	36	16
09...	0635	112	8	2.4
10...	0645	92	5	1.2
11...	0645	98	3	1.6
12...	0725	88	3	.71
15...	0645	156	15	6.3
16...	0645	145	7	2.7
18...	0635	90	3	.73
21...	0645	768	589	1220
21...	1920	415	103	115
22...	0645	330	45	40
23...	0645	239	26	17
24...	0630	171	12	5.5
SEP.				
08...	0645	56	1	.15
09...	0725	48	1	.13
10...	1840	43	1	.12
11...	0645	40	1	.11
12...	0645	36	1	.10
13...	0645	54	2	.29
14...	1835	136	11	4.0
15...	0645	285	59	45
16...	0725	133	9	3.2
18...	0645	112	3	.91
19...	0645	437	120	142
20...	0645	190	22	11
21...	0645	130	8	2.8
23...	0725	142	10	3.8
24...	1835	214	12	6.9
25...	0645	164	9	4.0
26...	0645	127	5	1.7
27...	0655	108	7	2.0
28...	0645	105	2	.57
30...	0735	320	54	47

03105500 BEAVER RIVER AT WAMPUM, PA. (LAT 40 53 19 LONG 080 20 14)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV.				
14...	1140	9240	528	13200
14...	1400	10100	468	12800
15...	1000	7700	173	3600
FEB.				
07...	1305	4320	32	373
MAR.				
15...	1355	19000	574	2940
15...	1540	18400	475	23600
16...	1130	12300	252	8370

OHIO RIVER BASIN

03106000 CONNOQUENESSING CREEK NEAR ZELIENOPLE, PA. (LAT 40 57 47 LONG 080 07 41)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV.				
14...	1015	1380	178	663
14...	1300	1870	324	1640
15...	1100	1610	128	556
FEB.				
07...	1345	884	27	64
MAR.				
15...	1255	7720	1060	22100
15...	1500	7370	808	16100
16...	1015	2890	356	2780

03106500 SLIPPERY ROCK CREEK AT WURTEMBURG, PA. (LAT 40 53 02 LONG 080 14 02)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV.				
14...	1055	2750	183	1360
14...	1320	3060	188	1550
15...	1025	3750	106	1020
FEB.				
07...	1220	1140	17	52
MAR.				
15...	1435	4100	394	4360
15...	1615	4000	270	2920
16...	1045	3230	115	1000

03107500 BEAVER RIVER AT BEAVER FALLS, PA. (LAT 40 45 48 LONG 080 18 55)

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV.				
14...	1435	14200	677	26000
15...	0915	13800	1100	41000

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Wolf Run at Parrish...................... 310 -- --
Wurtemburg, Slippery Rock Creek at....... -- -- 426
Wyncoop Run near Clarington.............. 312 -- --

Young Womans Creek near Renovo........... 223 -- 411

Zelienople, Connoquenessing Creek near... -- -- 426

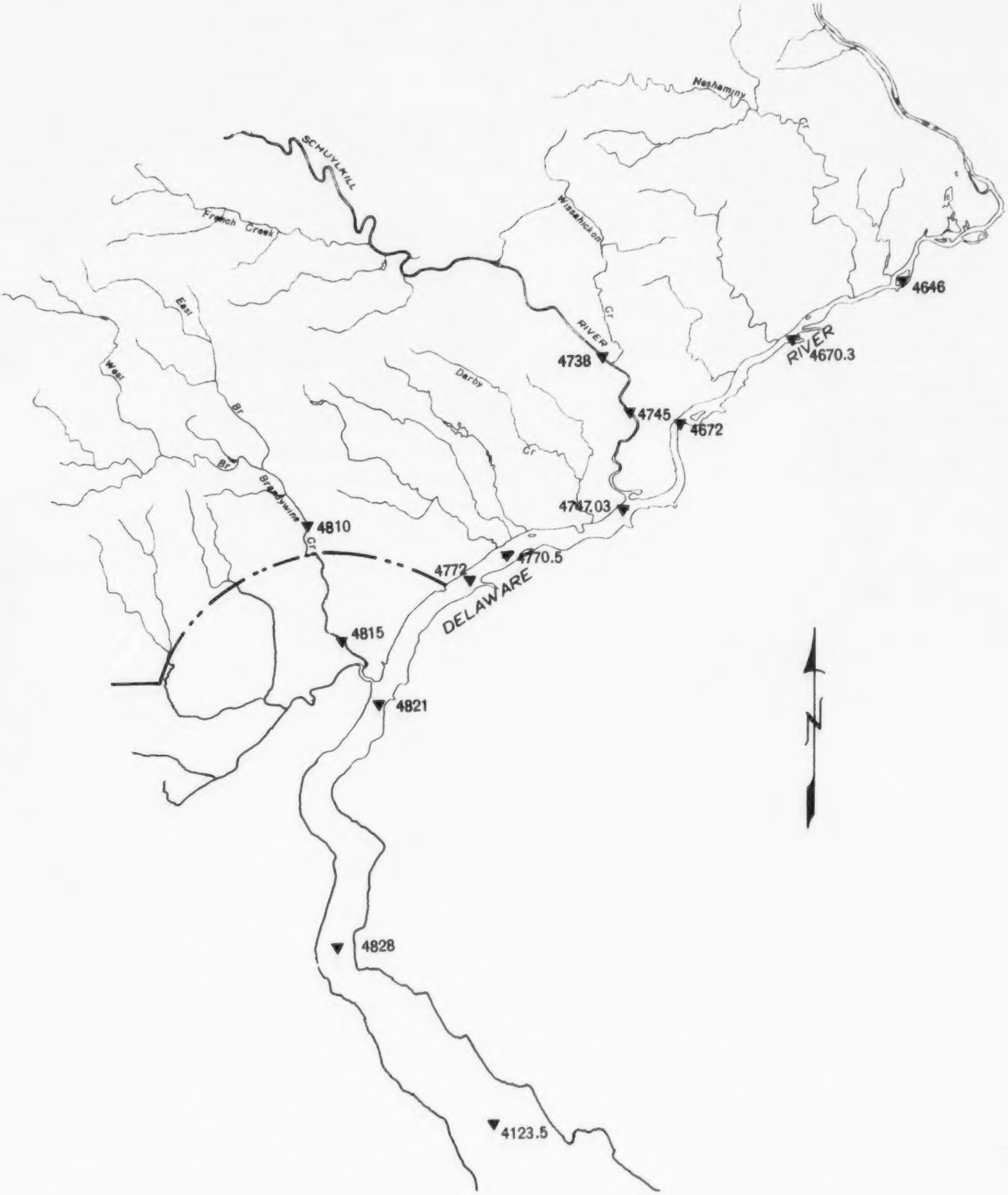
Neshaminy
Cr
SCHUYLKILL
French Creek
Wissahickon
Cr
RIVER
East
West
Br
Br
Darby
Cr
Brandywine
Cr
4646
4670.3
RIVER
4738
4745
4672
4747.03
4810
4772
4770.5
DELAWARE
4815
4821
N
4828
4123.5

Figure 7.--Map of lower Delaware River basin (below Trenton, N.J.) showing locations of water-quality stations.

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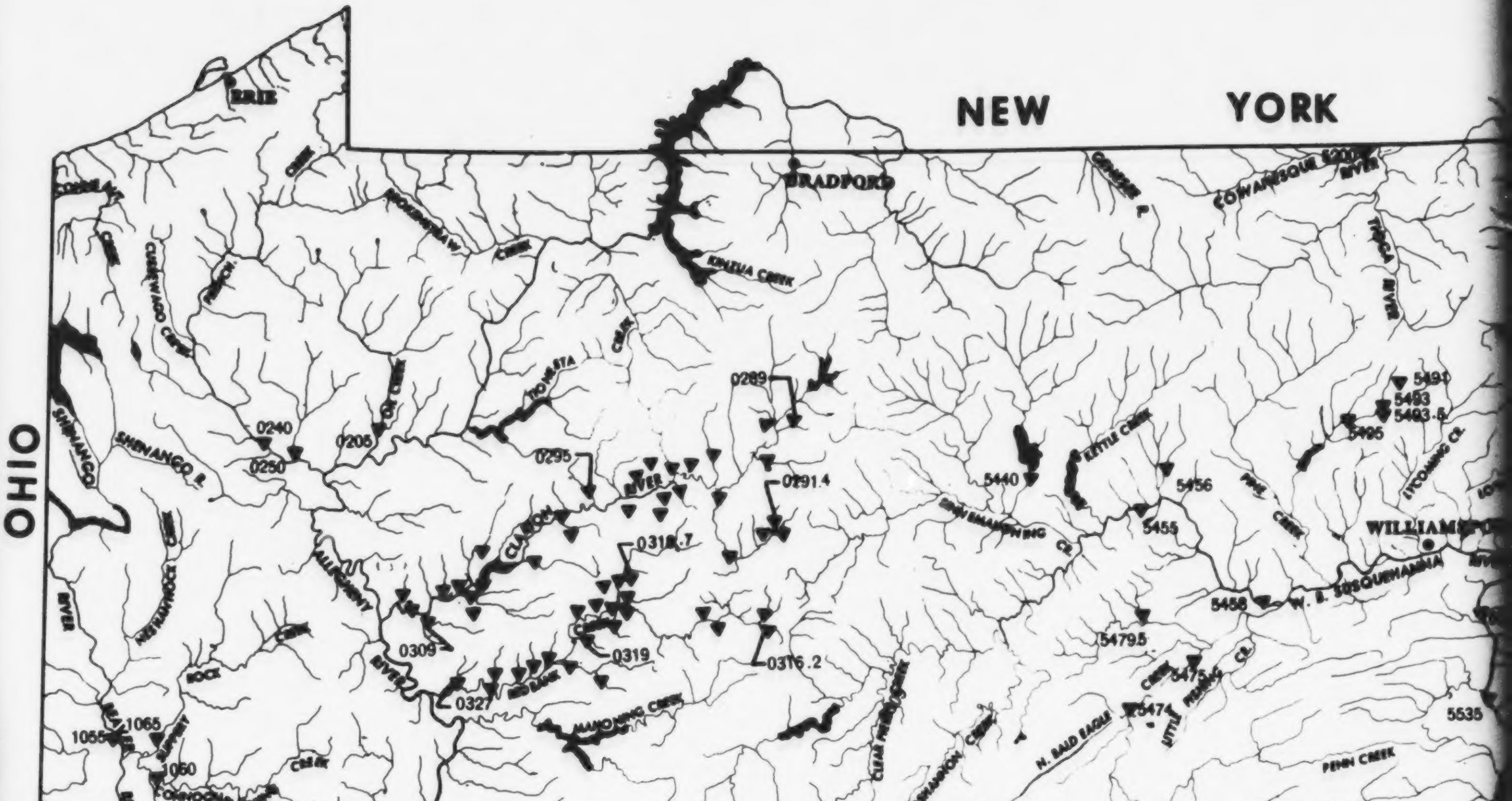
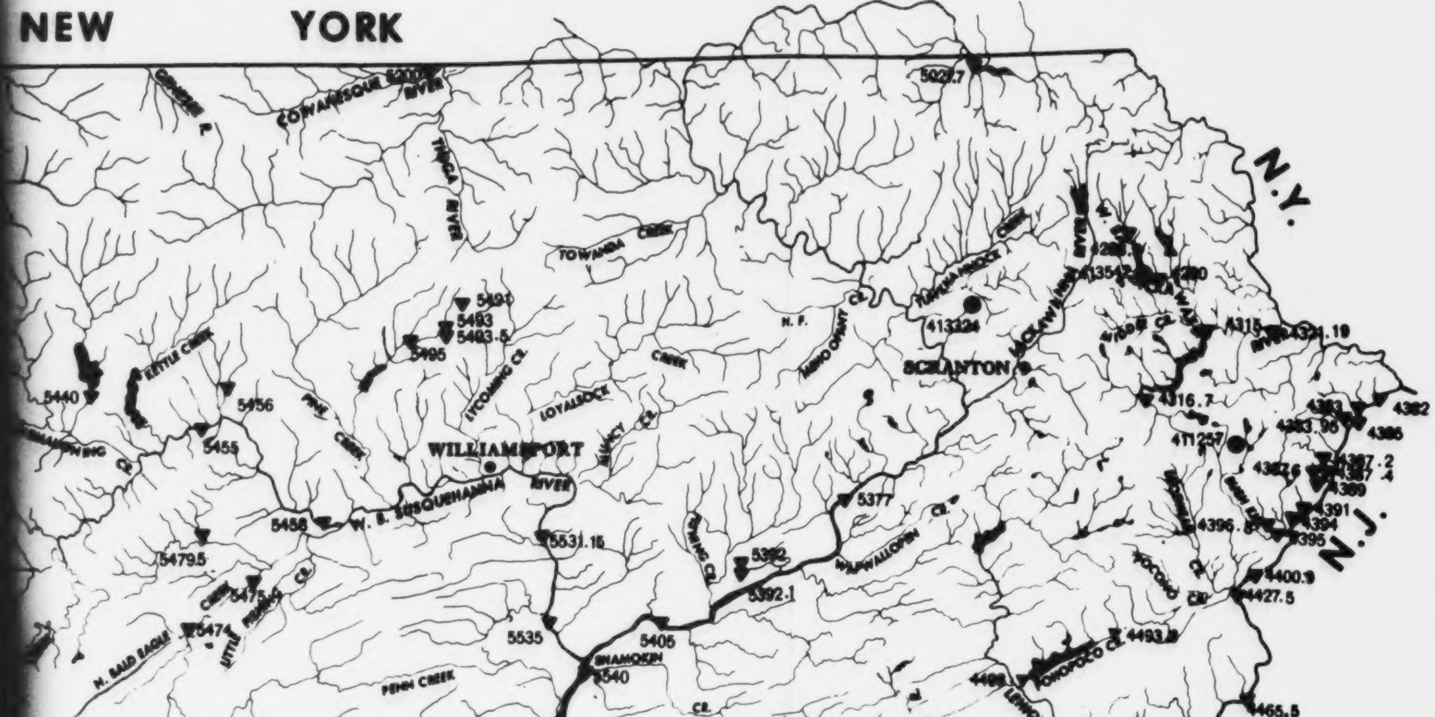

NEW YORK
OHIO
W. VA.
W. VA.
MD.
ERIE
BRADFORD
WILLIAMSP
ALTOONA
PITTSBURGH
KINZUA CREEK
COWANESQUE
RIVER
TIOGA RIVER
LYCOMING CR.
PINE CREEK
KETTLE CREEK
SINNEMAHONING CR.
W. B. SUSQUEHANNA
CLARION
RIVER
ALLEGHENY
RIVER
SHENANGO R.
SHENANGO
BEAVER
RIVER
OHIO
RIVER
CONNOQUENESSING
CREEK
SLIPPERY ROCK
CREEK
NESHANNOCK
TIONESTA
CREEK
OIL CREEK
CONNEAUT
FRENCH
CREEK
CONEWANGO
CREEK
BROKENSTRAW
CREEK
MAHONING CREEK
RED BANK
KISKIMINETAS R.
BLACKLICK
CONEMAUGH
RIVER
LOYALHANNA
CREEK
CHARTIERS CR.
YOUGHIOGHENY
RIVER
MONONGAHELA
TENMILE CR.
S. F. TENMILE CR.
LAUREL HILL CR.
CASSELMAN
RIVER
WILLS CR.
DUNNING
CREEK
EVITTS CR.
DUNNINGS CR.
DUNNINGS CR.
RAYSTOWN BR.
LITTLE JUNIATA
RIVER
STANDING STONE CR.
AUGHWICK CR.
TUSCARORA
CREEK
SHERMAN
CREEK
JUNIATA
RIVER
CONODOGUINET
CREEK
YELLOW BREECHES
CREEK
W. CONEWAGO
LICKING CREEK
CLEARFIELD CREEK
MOSHANNON CREEK
N. BALD EAGLE
LITTLE FISHING CR.
PENN CREEK
FISHING CR.
0240
0250
0205
0289
0295
0291.4
0319.7
0309
0319
0316.2
0327
1055
1065
1060
1075
0496.25
0860
403054
0850
0415
0450
0790
0630
395323
5201
5491
5493
5493.5
5495
5440
5456
5455
5458
5479.5
5475.5
5474
5535
5632.1
5630
5626
5624
5623.5
5627
5625
5623
5622
5622.5
5620.1
5620
5670
5702.6
5702.3
5702
5141.7

Figure 8.--Map of Pennsylvania showing locations of water-quality

LEGEND

▼	5705	STREAM WATER-QUALITY STATION--DESIGNATED BY DOWNSTREAM IDENTIFICATION NUMBER
●	401216	LAKE WATER-QUALITY STATION--DESIGNATED BY LATITUDE (FIRST SIX DIGITS OF LATITUDE-LONGITUDE IDENTIFICATION NUMBER)


NEW
YORK
N.Y.
N.J.
N.J.
DEL.
MD.
WILLIAMSPORT
SCRANTON
HARRISBURG
PHILADELPHIA
COWANESQUE RIVER
TIOGA RIVER
TOWANDA CREEK
LYCOMING CR.
LOYALSOCK CREEK
MUNCY CR.
PINE CREEK
KETTLE CREEK
W. B. SUSQUEHANNA RIVER
FISHING CR.
WAPWALLOPEN CR.
LACKAWANNA RIVER
TUNKHANNOCK CREEK
MESHOPPEN CR.
LACKAWAXEN
POCONO CR.
TOHICKON CR.
LEHIGH
TOHOPOLO CR.
L. SCHUYLKILL R.
SCHUYLKILL RIVER
PERKIOMEN
NESHAMINY CR.
WISSAHICKON CR.
BRANDYWINE CR.
DELAWARE RIVER
PENN CREEK
SHAMOKIN CR.
E. MAHANTANGO CR.
JUNIATA RIVER
STONY CREEK
SWATARA CR.
TULPEHOCKEN
SHERMAN CREEK
TUSCARORA CREEK
CONODOGUINET CREEK
YELLOW BREECHES CREEK
CONEWAGO CR.
W. CONEWAGO CR.
SUSQUEHANNA RIVER
MUDDY CREEK
CONESTOGA CREEK
LICKING CREEK
AUGHWICK CR.
STANDING STONE CR.
BALD EAGLE CREEK
LITTLE FISHING CR.
5440
5456
5455
5458
5479.5
5475
5474
5491
5493
5493.5
5495
5531.15
5535
5540
5405
5392
5392.1
5377
5020.7
413324
4316
4321.19
4316.7
4383
4382
4385
4383.96
411257
4387.2
4387.4
4389
4391
4394
4395
4396.6
4400.9
4427.5
4493.9
4465.5
4467
4547.2
4575
4516.95
4517
4517.7
4517.38
4517.39
4518
4705
4706.25
4707
4708
4709.6
401233
401216
47300
4734
4807
4806.17
4635
5670
5702.6
5702.3
5705
5632.1
5630
5625
5623
5622.5
5620.1
5769.9
5141.7

nia showing locations of water-quality stations.

3P